STR-DE475

SERVICE MANUAL

Ver 1.0 2001. 02

US Model
Canadian Model
AEP Model
UK Model
Australian Model
Chinese Model
E Model

Manufactured under license from Dolby Laboratories Licensing Corporation.
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SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
With 8 ohm loads, both channels driven, from 40 - 20,000 Hz; rated 80 watts per channel minimum RMS power, with no more than 0.09% total harmonic distortion from 250 milliwatts to rated output (USA model only).

Amplifier section

POWER OUTPUT

US, Canadian :
Rated Power Output at Stereo mode
(8 ohms 40 Hz - 20 kHz, THD 0.09%)
80 W + 80 W

US, Canadian, AEP, UK :
Reference Power Output
(8 ohms 1 kHz, THD 0.7%)
Front[1]: 80 W/ch
Center[1]: 80 W
Surround[1]: 80 W/ch

EXCEPT :
Rated Power Output at Stereo mode
(8 ohms 1kHz, THD 0.7%)
80 W + 80 W [2]

EXCEPT :
Reference Power Output[2]
(8 ohms 1 kHz, THD 10%)
Front[1]:
90 W/ch
Center[1]: 90 W
Surround[1]:
90 W/ch

1) Depending on the sound field settings and the sources, there may be no sound output.
2) Measured under the following conditions:

Area code	Power requirement
E, Australian	240 V AC, 50 Hz
Chinese	230 V AC, 50 Hz
Taiwan	110 V AC, 50 Hz

Frequency response
MULTI CH IN, CD, MD/TAPE, DVD/LD, TV/SAT, VIDEO:
20 Hz – 20 kHz
0/– 0.5 dB (sound field, and tone bypassed)

Inputs (Analog)
MULTI CH IN, CD, MD/TAPE, DVD/LD, TV/SAT, VIDEO:
Sensitivity: 250 mV
Impedance:
50 kilohms
S/N[3]: 85 dB
(A, 250 mV[4])

3) INPUT SHORT
4) Weighted network, input level

Inputs (Digital)
DVD/LD (coaxial):
Sensitivity: –
Impedance: 75 ohms
S/N: 100 dB
(A, 20 kHz LPF)
TV/SAT (Optical):
Sensitivity: –
Impedance: –
S/N: 100 dB
(A, 20 kHz LPF)

Outputs
MD/TAPE (OUT):
VIDEO (AUDIO OUT):
Voltages: 250 mV,
Impedance:
10 kilohms
SUB WOOFER:
Voltage: 2 V
Impedance :
1 kilohms
PHONES:
Accepts low– and high-impedance headphones

TONE
±6 dB at 100 Hz and 10 kHz

Sampling frequency
48 kHz (OPTICAL IN)
96 kHz (COAXIAL IN)

FM tuner section

Tuning range 87.5 - 108.0 MHz

Antenna terminals
75 ohms, unbalanced

Intermediate frequency 10.7 MHz

Sensitivity
Mono: 18.3 dBf, 2.2 µV/75 ohms
Stereo: 38.3 dBf, 22.5 µV/75 ohms

Usable sensitivity
11.2 dBf, 1 µV/75 ohms

S/N
Mono: 76 dB
Stereo: 70 dB

Harmonic distortion at 1 kHz
Mono: 0.3%
Stereo: 0.5%

Separation 45 dB at 1 kHz

Frequency response
30 Hz - 15 kHz
+0.5/-2 dB

Selectivity 60 dB at 400 kHz

— Continued on next page —

FM STEREO FM-AM RECEIVER

9-929-587-11
2001B1600-1
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Sony Corporation
Audio Entertainment Group
General Engineering Dept.

SONY®

AM tuner section

Tuning range

US, Canadian :
With 10-kHz tuning scale:
530 - 1710 kHz[5)]
With 9-kHz tuning scale:
531 - 1710 kHz[5)]

Australian, Chinese, AEP, UK :
With 9 kHz tuning scale:
531 - 1602 kHz

E, Taiwan :
With 10-kHz tuning scale:
530-1610 kHz[5)]
With 9-kHz tuning scale:
531-1602 kHz[5)]

Antenna Loop antenna

Intermediate frequency 450 kHz

Usable sensitivity
50 dB/m (at 1,000 kHz or 999 kHz)

S/N 54 dB (at 50mV/m)

Harmonic distortion
0.5% (50mV/m, 400 kHz)

Selectivity: At 9 kHz: 35 dB
At 10 kHz: 40 dB

5) You can change the AM tuning scale to 9 kHz 10 kHz. After tuning in any AM station, turn off the receiver. Hold down the TUNING + button and press the button. All preset stations will be erased when you change the tuning scale. To reset the scale to 10 kHz (or 9 kHz), repeat the procedure.

Video section

Inputs Video: 1 Vp-p 75 ohms

Outputs Video: 1 Vp-p 75 ohms

General

System
Tuner section:
PLL quartz-locked digital synthesizer system
Preamplifier section:
Low-noise NF type equalizer
Power amplifier section:
Pure-complementary SEPP

Power requirements
US, Canadian :
120 V AC, 60 Hz
Chinese :
CN
220 -230 V AC, 50/60 Hz
Australian :
240 V AC, 50 Hz
E : 120/220/240 V AC, 50/60 Hz
Taiwan :
110 V AC, 50/60 Hz
AEP, UK :
230 V AC, 50/60 Hz

Power consumption
US :
185 W
In Standby Condition:
1 W
Canadian :
280 VA
In Standby Condition:
1 W
E, Chinese, Taiwan, AEP, UK :
175 W
In Standby Condition:
1 W
Australian :
165 W
In Standby Condition: 1 W

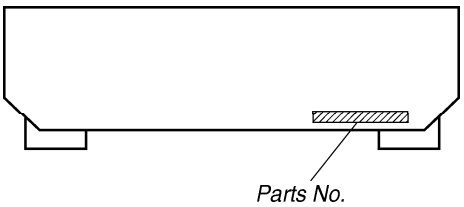
Dimensions 430 × 145 × 298 mm ($17 \times 7\,^{7}/_{8} \times 19\,^{5}/_{8}$ in.) including projecting parts and controls

Mass (Approx.)
7.2 kg (15 lb 14 oz)

Supplied accessories
- FM wire antenna (1)
- AM loop antenna (1)
- R6 (size-AA) batteries (2)
- Remote Commander (remote) (1)

Design and specifications are subject to change without notice.

MODEL IDENTIFICATION
— BACK PANEL —



MODEL	PARTS No.
US	4-233-753-0☐
Canadian	4-233-753-1☐
Australian	4-233-753-2☐
Chinese	4-233-753-4☐
E, Taiwan	4-233-753-5☐
AEP	4-233-753-6☐
UK	4-233-753-7☐
Mexican	4-233-753-8☐
Argentina	4-233-753-9☐

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer: Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.

2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

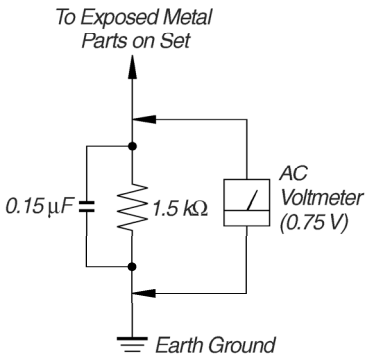


Fig. A. Using an AC voltmeter to check AC leakage.

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SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

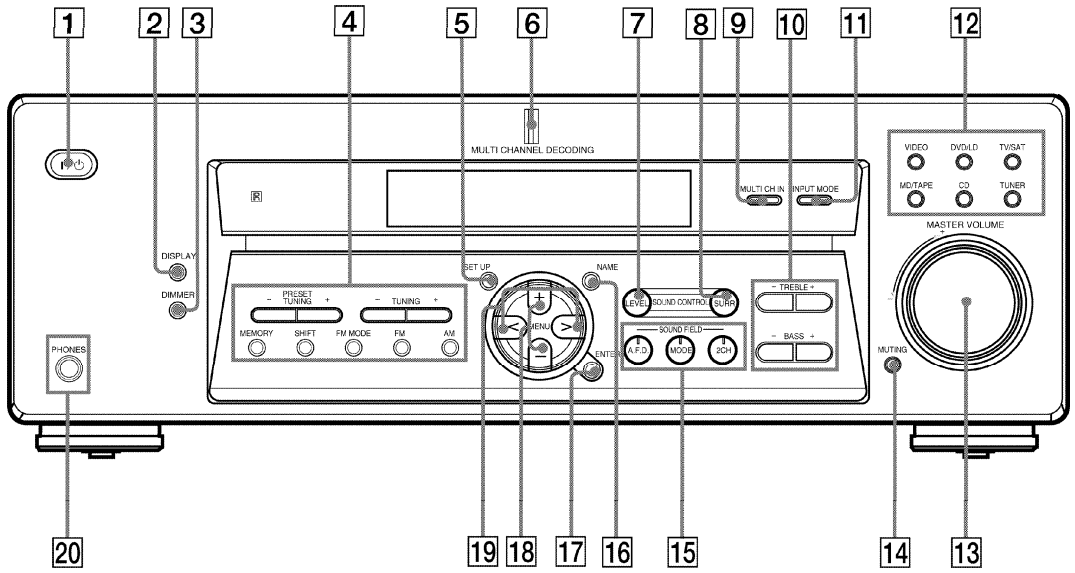
与安全有关的零部件须知

在原理图上用阴影及 ⚠ 标记来识别的零部件在安全操作上是具有关键性的。这些零部件要用本手册中所示的部件号对应的索尼零部件进行更换。

在安全操作上具有关键性的电路调整与索尼公司出版的维修手册完全一致。在更换关键零部件时或怀疑动作失常时，请进行这些调整操作。

SECTION 1
GENERAL

This section is extracted from instruction manual.



1 I/⏻ switch
Press to turn the receiver on and off.

2 DISPLAY button
Press repeatedly to change the information on the display window as follows:

Index name of the component or the preset station*
↓
FUNCTION button indication or frequency**
↓
Sound field applied to the program source

* *Index name appears only when you have assigned one to the component or preset station (see page 39). Index name does not appear when only blank spaces have been entered, or it is the same as the function button.*
** *Frequency appears only when the tuner is selected.*

3 DIMMER button
Press repeatedly to adjust the brightness of the display. When you want to turn off the display, set in the "DIM.RANGE" parameter in the SET UP menu (page 47).

4 The following buttons operate the built-in tuner. For details, see "Receiving Broadcasts" starting from page 34.

PRESET TUNING +/– buttons
Scan all preset stations.

TUNING +/– buttons
Scan all the available radio stations.

MEMORY button
Press to memorize a preset station.

SHIFT button
Selects a memory page for preset stations.

FM MODE button
If "STEREO" flashes in the display and the FM stereo reception is poor, press this button. You will not have the stereo effect but the sound is improved.

FM button
Selects the FM band.

AM button
Selects the AM band.

5 SET UP button/indicator
Press to activate the setup mode, then use the MENU < / > buttons (19) to select any of the following indications. You can then make various settings using the MENU +/– buttons (18).

When you select	You can
Speaker type	Specify the type of speakers. (page 15)
Speaker setup	Specify the front, center, surround speaker sizes, the surround speaker position, and whether or not you are using a sub woofer. (page 15)
Speaker Distance	Specify the front, center, and surround speaker distances. (page 17)
Dimmer range	Specify the display to turn off when you press the DIMMER button several times. (page 47)
MULTI CH IN video input	Specify the video input to be used with the audio signals from the MULTI CH IN jacks. (page 47)

6 MULTI CHANNEL DECODING indicator
This indicator lights up when the unit is decoding signals recorded in a Multi Channel format.

7 LEVEL button / indicator
Press to activate the speaker level parameters (page 31). The indicator on the button lights up and you can adjust the various speaker level parameters (front balance, surround balance, etc.).

8 SURR button / indicator
Press to activate the surround parameters (page 30). The indicator on the button lights up and you can adjust the various surround parameters (effect level, wall type, etc.).

9 MULTI CH IN button
Press to enjoy the audio source connected to the MULTI CH IN jacks with the video from the selected component. Press again to cancel MULTI CH IN.

- When the MULTI CH IN is selected, the tone, sound field and surround parameters do not function.

10 Tone buttons
TREBLE +/– button
Press this button to adjust the tone (treble) (page 32).

BASS +/– button
Press this button to adjust the tone (bass) (page 32).

11 INPUT MODE button

Press to select the input mode for your digital components (DVD/LD and TV/SAT).
Each press switches the input mode of the currently selected component.

Select	To
AUTO	Give priority to digital signals when there are both digital and analog connections. If there are no digital signals, analog is selected
DIGITAL (OPTICAL)	Specify the digital audio signals input to the DIGITAL OPTICAL input jacks (TV/SAT only)
DIGITAL (COAXIAL)	Specify the digital audio signals input to the DIGITAL COAXIAL input jacks (DVD/LD only)
ANALOG	Specify the analog audio signals input to the AUDIO IN (L and R) jack

Note

If 96 kHz digital signal is input, the tone, sound field and surround parameters do not function.

12 Function buttons

Press one of the buttons to select the component you want to use.

To select	Press
VCR	VIDEO
DVD or LD player	DVD/LD
TV or satellite tuner	TV/SAT
MD or Tape deck	MD/TAPE
CD player	CD
Built in tuner	TUNER

After selecting the component, turn on the component you selected and play the program source.

- After selecting VCR, DVD player, or LD player, turn on the TV and set the TV's video input to match the component you selected.

13 MASTER VOLUME control

After turning on the component you selected, rotate to adjust the volume.

14 MUTING button

Press to mute the sound. MUTING appears on the display when the sound is muted.

15 SOUND FIELD

Use the SOUND FIELD buttons to enjoy surround sound. For details, see "Enjoying Surround Sound" starting from page 24.

A.F.D button / indicator

Press to set the receiver to automatically detect the type of audio signal being input and perform proper decoding (if necessary).

MODE button / indicator

Press to activate the sound field selection mode (page 25).

2CH button / indicator

Press to output sound from only the front (left and right) speakers.

16 NAME button / indicator

Press to activate the name function and enter names for preset stations and program sources (page 39).

17 ENTER button

Press to enter individual characters for the preset stations and program source names.

18 MENU +/– buttons

Turn to adjust the selected speaker level and surround parameters (etc.).

19 MENU </> buttons

Press to select various speaker level and surround parameters (etc.).

20 PHONES jack

Connects headphones.

- When you connect the headphones, no sound will come from the speakers.

SECTION 2
TEST MODE

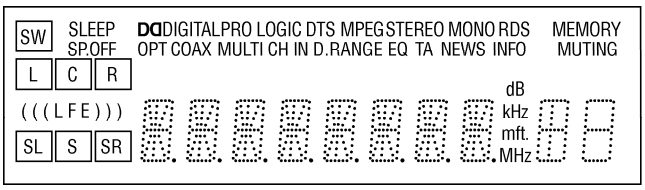
SOFTWARE VERSION DISPLAY MODE

* The software version is displayed.
* Procedure:
  While depressing the TUNER and the VIDEO buttons simultaneously, press the power I/⏻ button to turn on the main power. The model name, destination and the software version are displayed.

FLUORESCENT INDICATOR TUBE TEST MODE

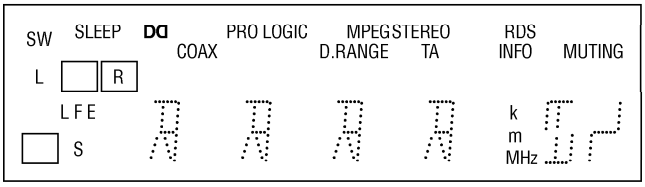
* All fluorescent segments are tested. When this test is activated, all segments turn on at the same time, then each segment turns on one after another.
* Procedure:
  While depressing the TV/SAT and the DVD/LD buttons simultaneously, press the power I/⏻ button to turn on the main power.

1. All segments turn on.



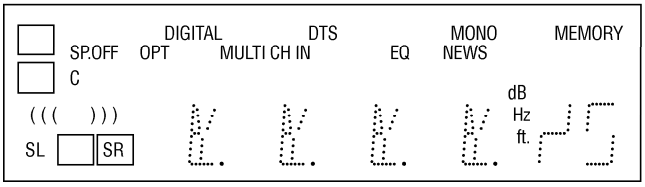
NAME ,SURR and SOUND FIELD MODE LED turn on.

2. Press the VIDEO button, confirm display



Digital Cinema Sound, SET UP and 2CH LED turn on.

3. Press the VIDEO button, confirm display



MULTI CHANNEL DECODING(blue), LEVEL and A.F.D LED turn on.

4. Press the VIDEO button, All segments turn off.

5. Every pressing of the VIDEO button turns on each segment and LED one after another in the same order.
   (Not only the VIDEO button, but also the other buttons such as DVD/LD , TV/SAT , MD/TAPE , CD , TUNER can be used.)

FACTORY SET MODE

* All preset contents are reset to the default setting.
* Procedure:
  While depressing the VIDEO and the CD buttons simultaneously, press the power I/⏻ button to turn on the main power. The message FACTORY appears and switch off the set.
  While depressing the VIDEO and the CD buttons simultaneously, press the power I/⏻ button again. The message FACTORY appears and the present contents are reset to the default values.

SOUND FIELD CLEAR MODE

* The preset sound field is cleared when this mode is activated. Use this mode before returning the product to clients upon completion of repair.
* Procedure:
  While depressing the SOUND FIELD MODE button, press the power I/⏻ button to turn on the main power. The message S. F. CLR appears and initialization is performed.

AM CHANNEL STEP 9 kHz/10 kHz SELECTION MODE

* Either the 9 kHz step or 10 kHz step can be selected for the AM channel step.
* Procedure:
  Set the FUNCTION to AM. Turn off the main power.
  While depressing the TUNING+ button or the PRESET TUNING+ button, press the power I/⏻ button to turn on the main power. Either the message 9 k STEP or 10 k STEP appears. Select the desired step.
* For US/Canadian/E model only

KEY CHECK MODE

* Button check
* Procedure:
  While depressing the SURR and the A.F.D buttons simultaneously, press the power I/⏻ button to turn on the main power.
  "REST 36" appears.
  Every pressing of any button other than I/⏻ counts down the buttons. The buttons which are already counted once are not counted again. When all buttons are pressed "REST 00" appears.
  When MASTER VOLUME is rotated in clockwise direction, "VOL MIN", "VOL 1" to "VOL 30", "VOL MAX" appear.

SECTION 3
DIAGRAMS

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this necessary note is printed in each block.)

For schematic diagrams.
Note:

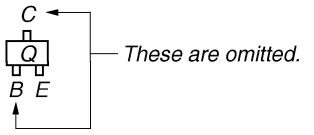
- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	**Note:** Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。	

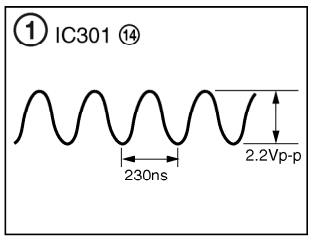
- : B+ Line.
- : B– Line.
- : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  No mark : FM
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM
  f : CD
- Abbreviation
  CND : Canadian model.
  AUS : Australian model.
  AR : Argentine model.
  CH : Chinese model.
  MX : Mexican model.

For printed wiring boards.
Note:

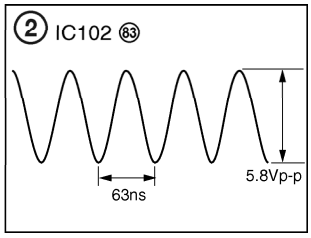
- ○——— : parts extracted from the component side.
- ○ : Through hole.
- △ : internal component.
- ▒▒ : Pattern from the side which enables seeing.



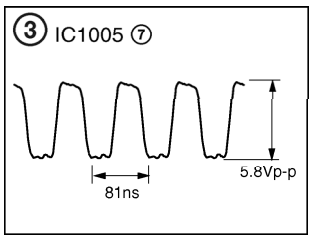
• Waveform
– MAIN BOARD –



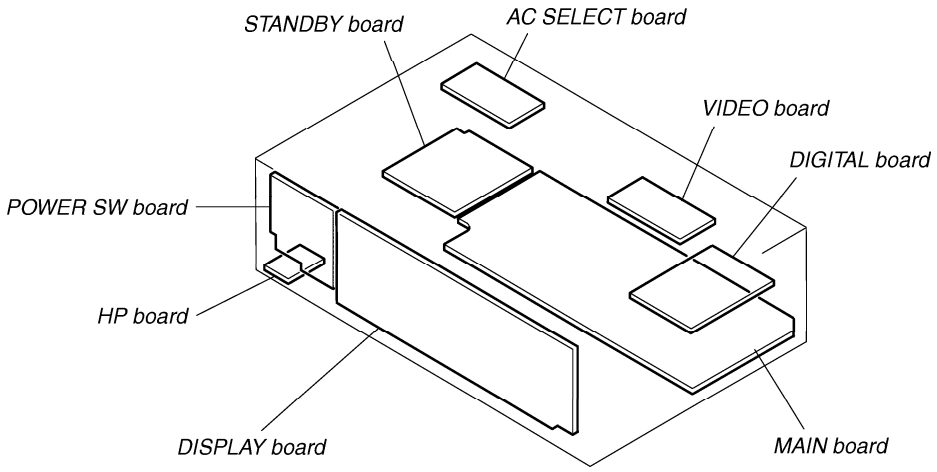
– DISPLAY BOARD –



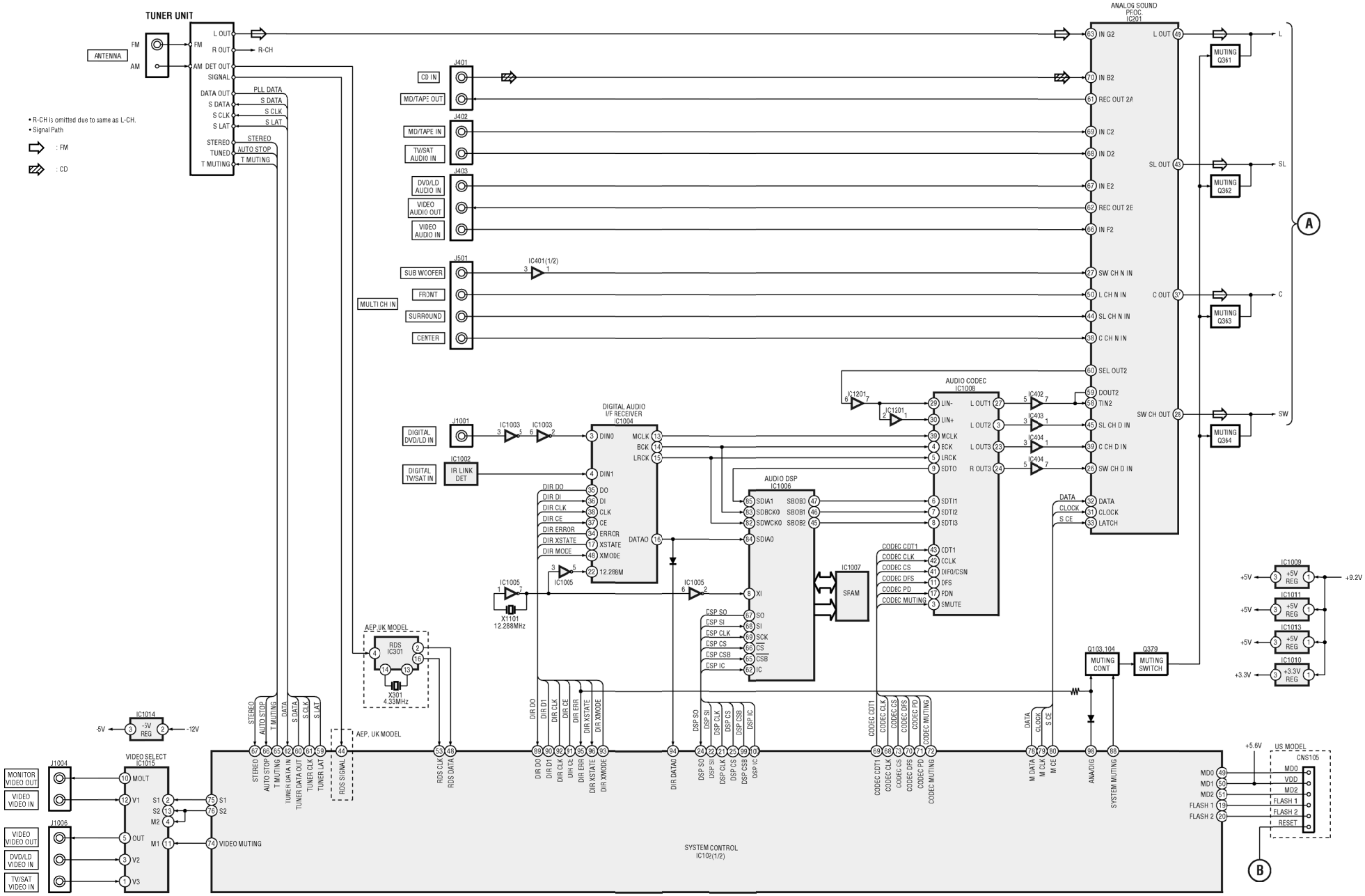
– DIGITAL BOARD –



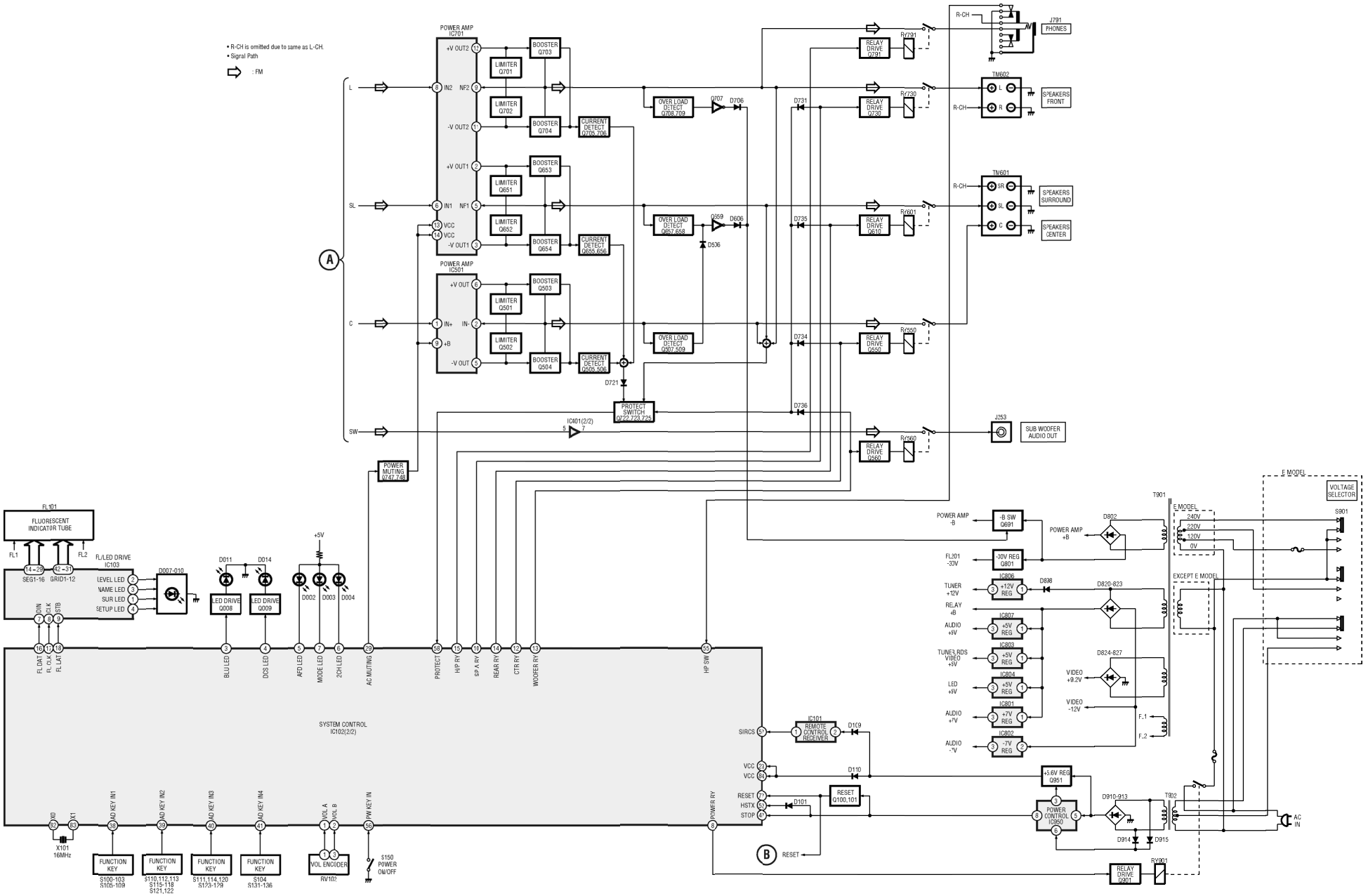
3-1. CIRCUIT BOARDS LOCATION



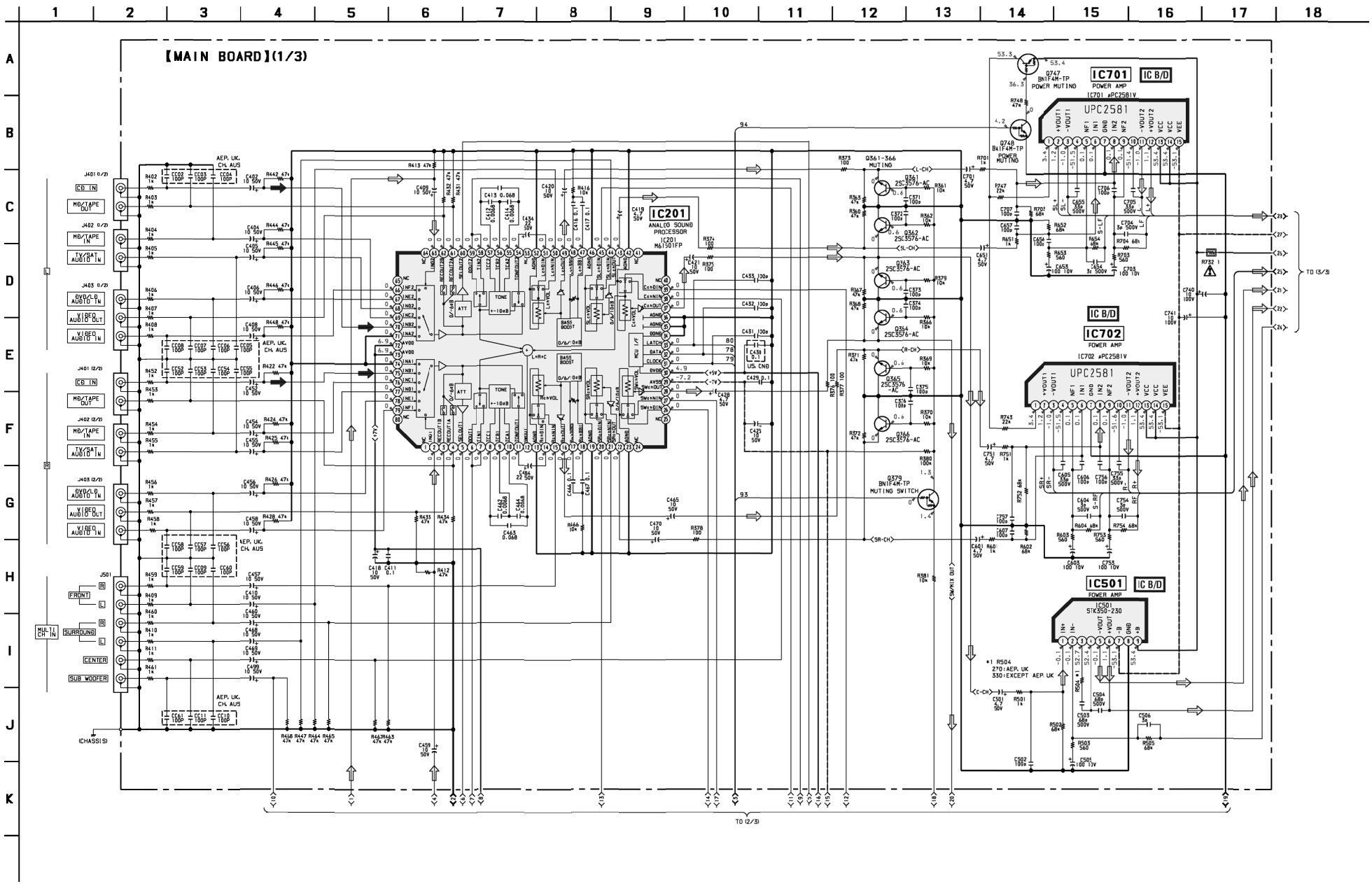
3-2. BLOCK DIAGRAM – MAIN SECTION –



3-3. BLOCK DIAGRAM – DISPLAY SECTION –

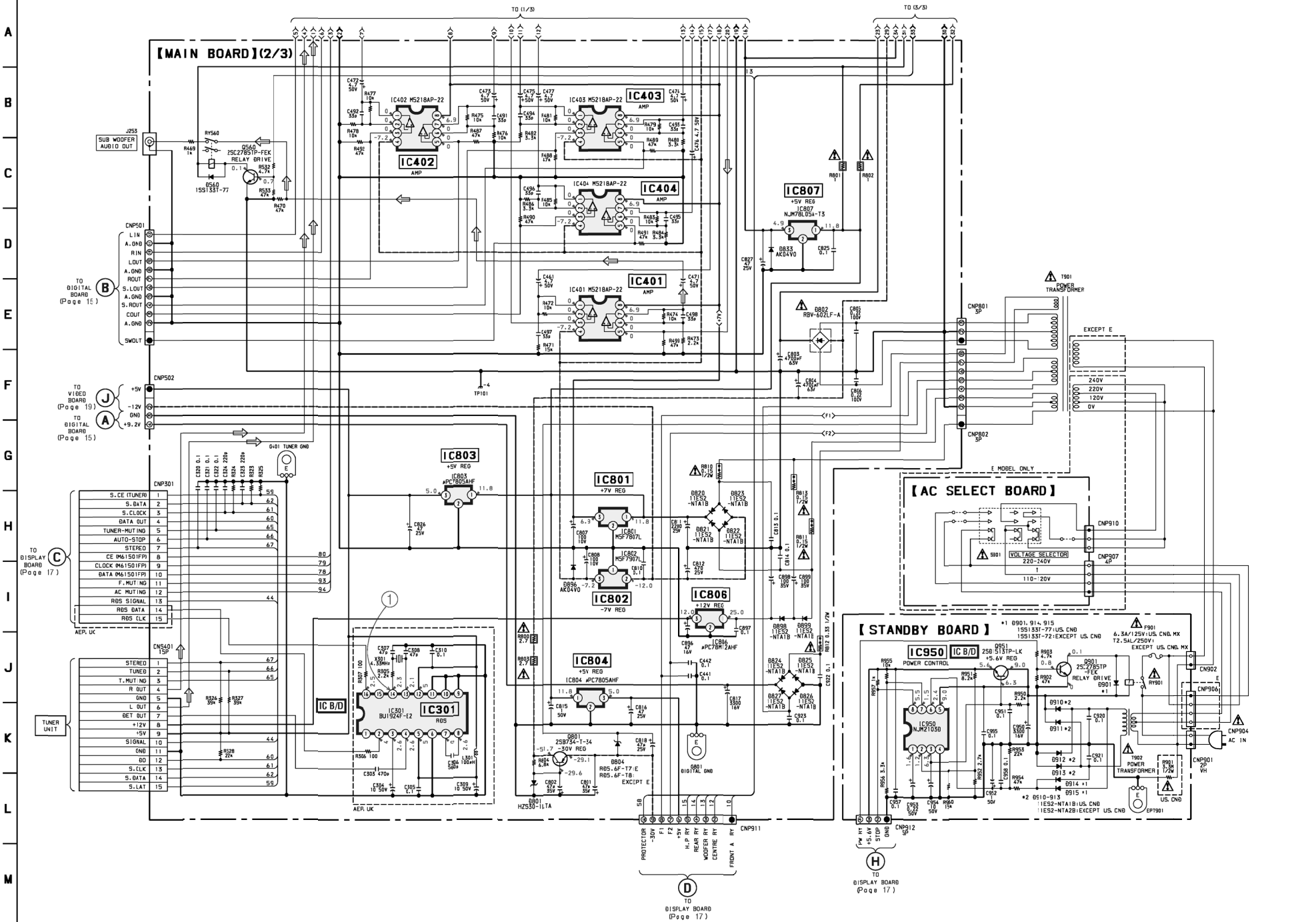


3-4. SCHEMATIC DIAGRAM – MAIN SECTION (1/3) – • See page 21 for IC Block Diagram.

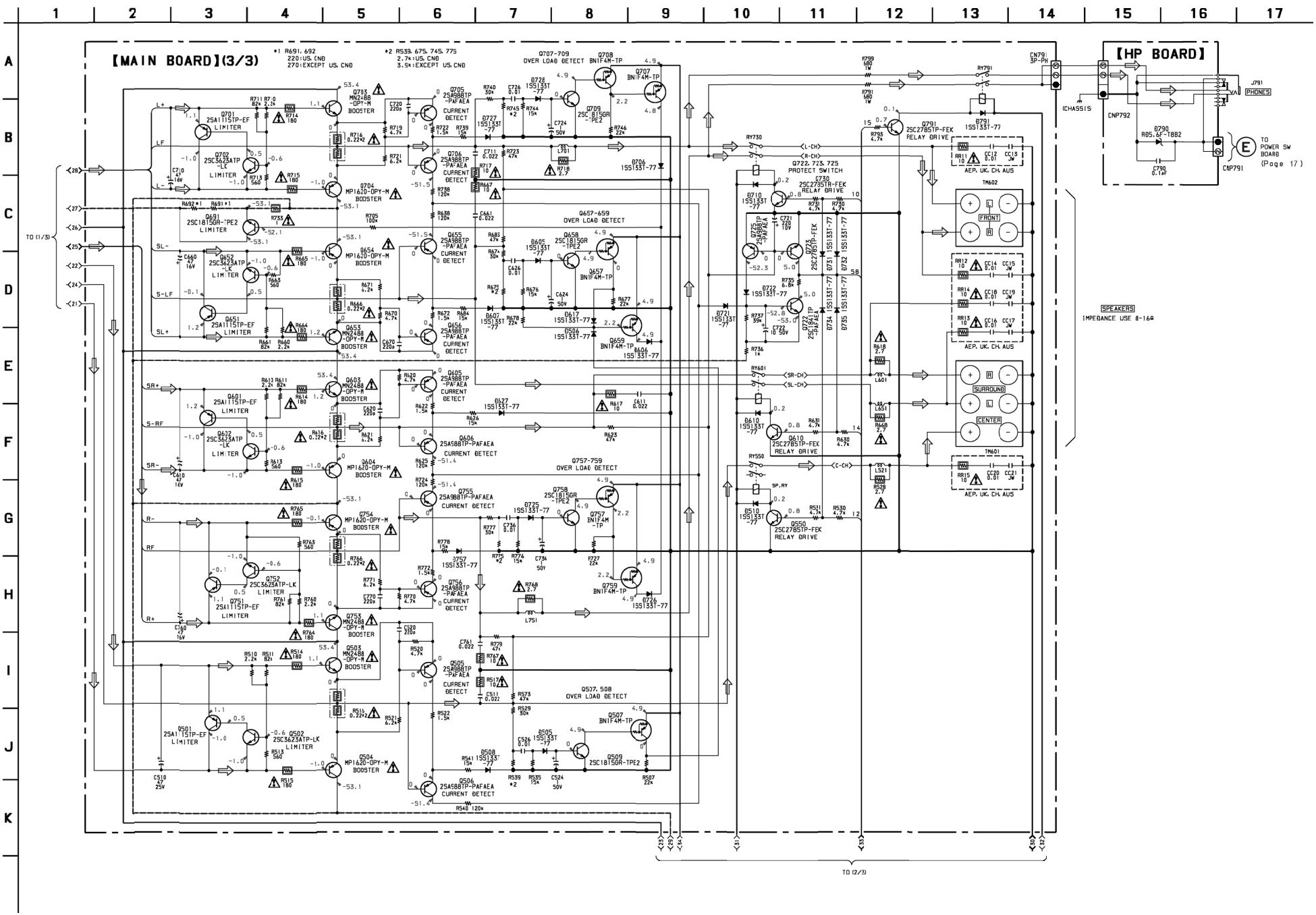


3-5. SCHEMATIC DIAGRAM – MAIN SECTION (2/3) –

• See page 21 for IC Block Diagram.

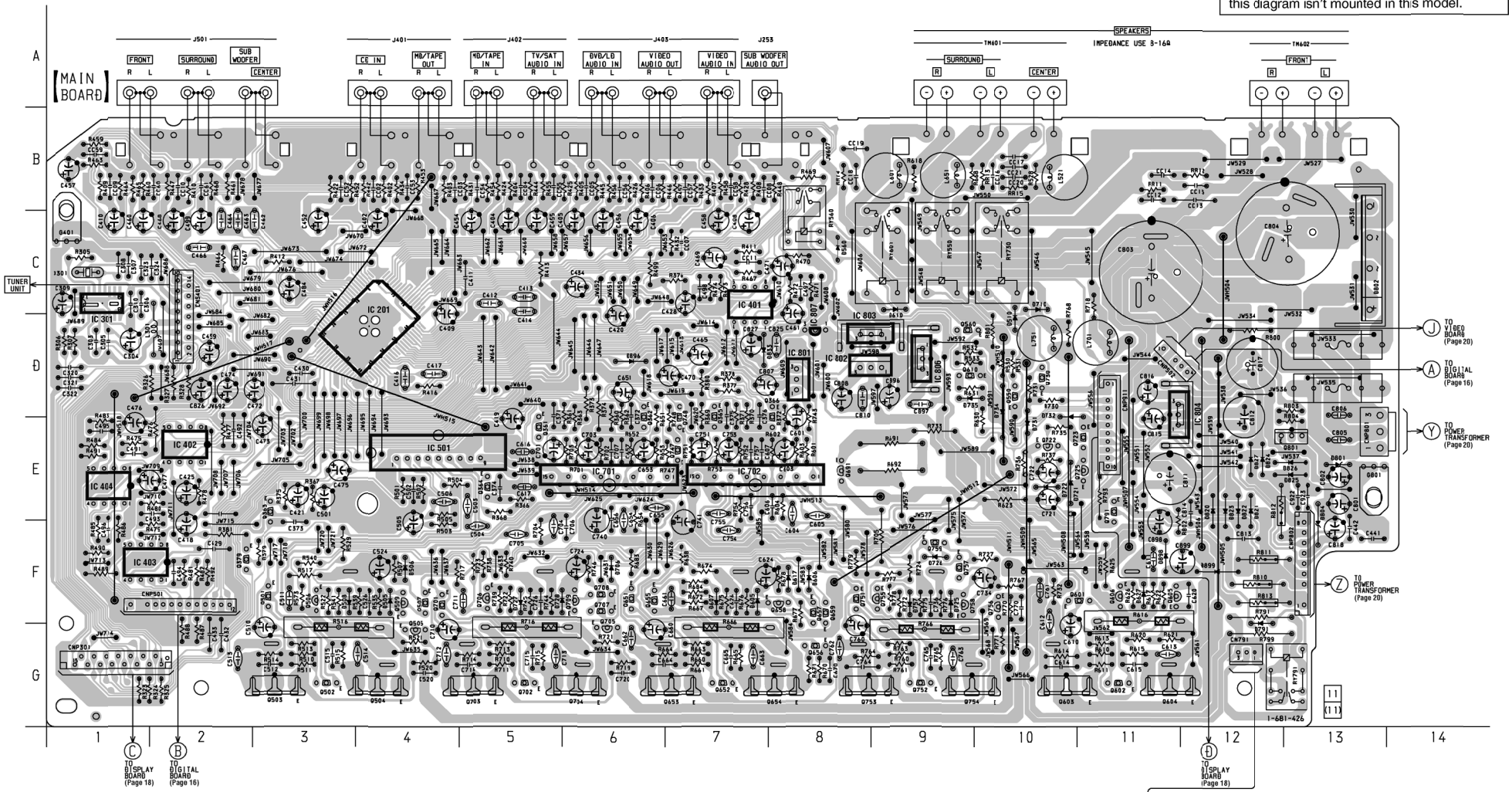


3-6. SCHEMATIC DIAGRAM – MAIN SECTION (3/3) –



3-7. PRINTED WIRING BOARD – MAIN SECTION – • See page 8 for Circuit Boards Location.

There are a few cases that the part printed on this diagram isn't mounted in this model.

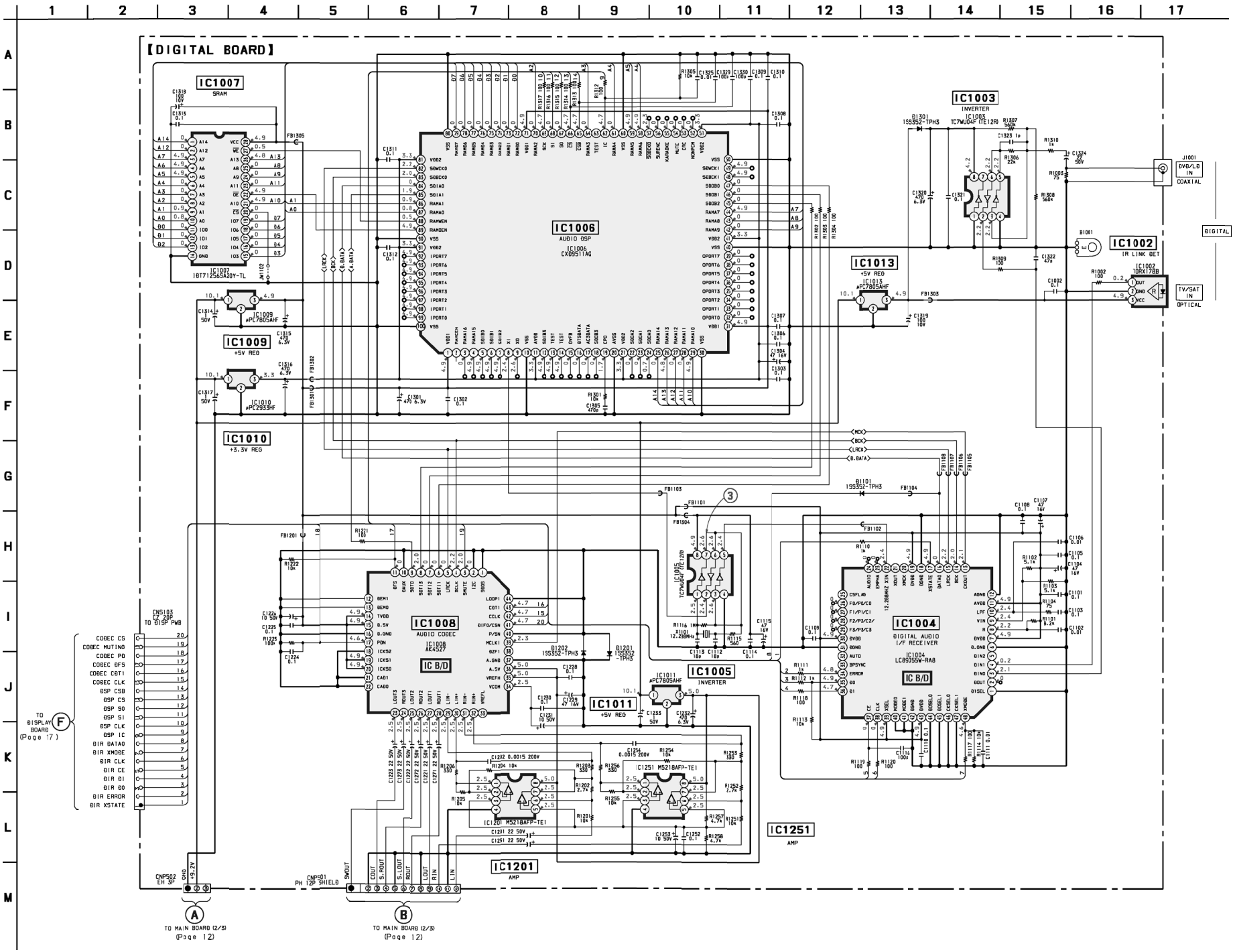


• Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D505	F-4	D726	F-9	D824	E-12	IC701	E-6	Q501	F-3	Q610	D-9	Q706	F-5	Q757	F-9
D506	F-4	D727	F-9	D825	E-13	IC702	E-7	Q502	G-3	Q651	F-6	Q707	F-6	Q758	F-9
D508	F-3	D728	F-5	D826	E-13	IC801	D-8	Q503	G-3	Q652	G-7	Q708	F-6	Q759	F-9
D510	D-10	D731	D-10	D827	E-12	IC802	D-8	Q504	G-4	Q653	G-7	Q709	F-6	Q791	E-11
D560	C-8	D732	D-10	D833	D-7	IC803	D-8	Q505	G-4	Q654	G-8	Q722	E-10	Q801	E-13
D605	F-7	D734	D-10	D896	D-6	IC804	D-11	Q506	F-3	Q655	F-6	Q723	E-11		
D606	F-8	D735	D-9	D898	F-11	IC806	D-9	Q507	F-4	Q656	G-8	Q725	E-11		
D607	F-7	D757	F-9	D899	F-12	IC807	D-8	Q509	F-4	Q657	F-8	Q730	D-10		
D610	C-9	D791	F-12					Q550	D-10	Q658	F-8	Q747	E-7		
D617	F-8	D801	E-13	IC201	D-4	Q361	E-5	Q560	D-9	Q659	F-8	Q748	E-7		
D627	F-11	D802	C-13	IC301	C-1	Q362	E-6	Q601	F-10	Q691	E-8	Q751	F-8		
D706	F-6	D804	F-13	IC401	C-7	Q363	E-3	Q602	G-11	Q701	F-4	Q752	G-9		
D710	C-10	D820	E-12	IC402	E-2	Q364	E-5	Q603	F-11	Q702	G-5	Q753	G-8		
D721	E-10	D821	E-12	IC403	F-1	Q365	E-7	Q604	G-11	Q703	G-5	Q754	G-9		
D722	E-10	D822	E-12	IC404	E-1	Q366	E-8	Q605	F-11	Q704	G-6	Q755	F-9		
D725	F-9	D823	E-12	IC501	E-4	Q379	F-2	Q606	F-11	Q705	G-6	Q756	F-10		

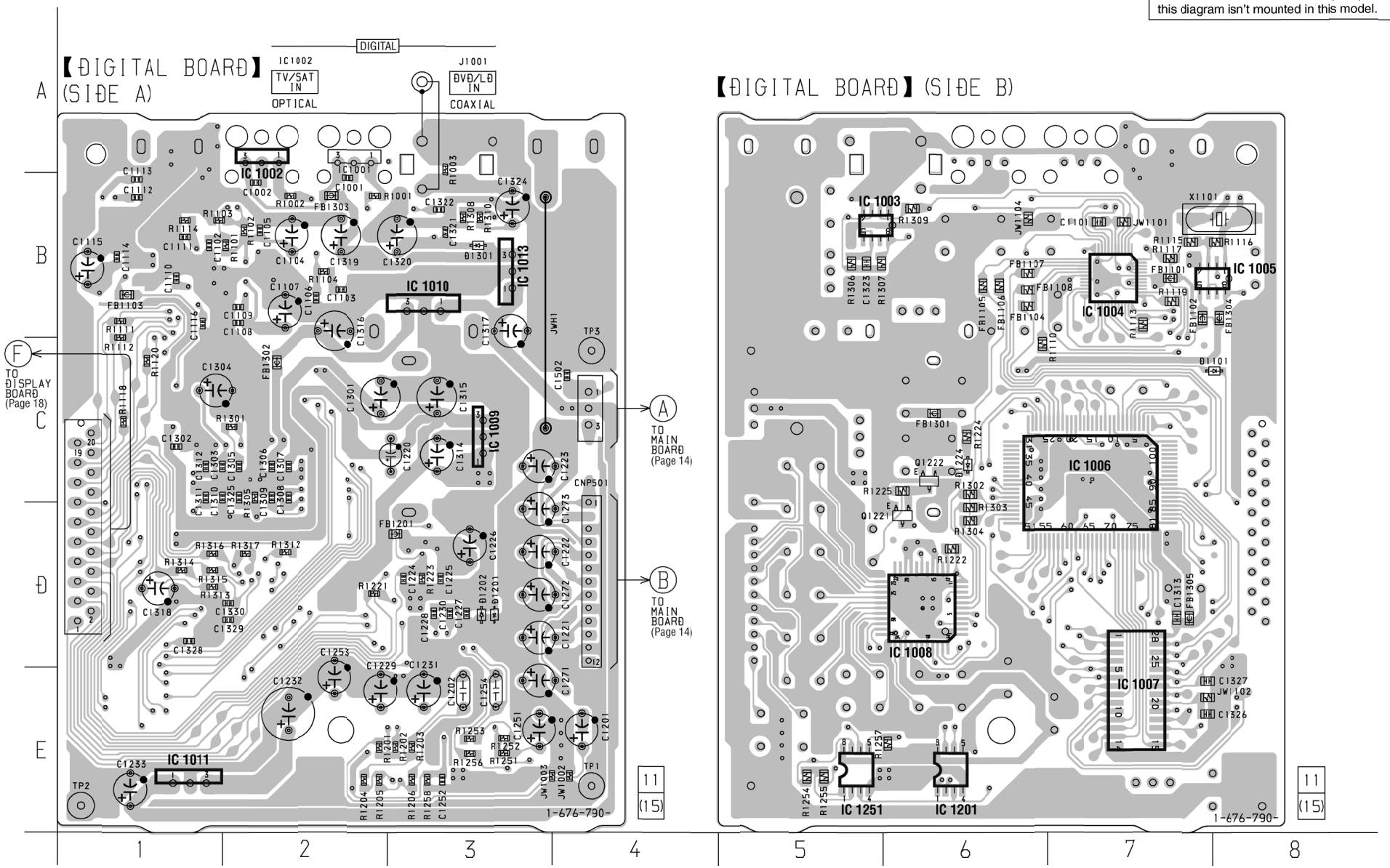
3-8. SCHEMATIC DIAGRAM – DIGITAL SECTION –

• See page 21 for IC Block Diagram. • See page 7 for Waveforms.



3-9. PRINTED WIRING BOARD – DIGITAL SECTION – • See page 8 for Circuit Boards Location.

There are a few cases that the part printed on this diagram isn't mounted in this model.

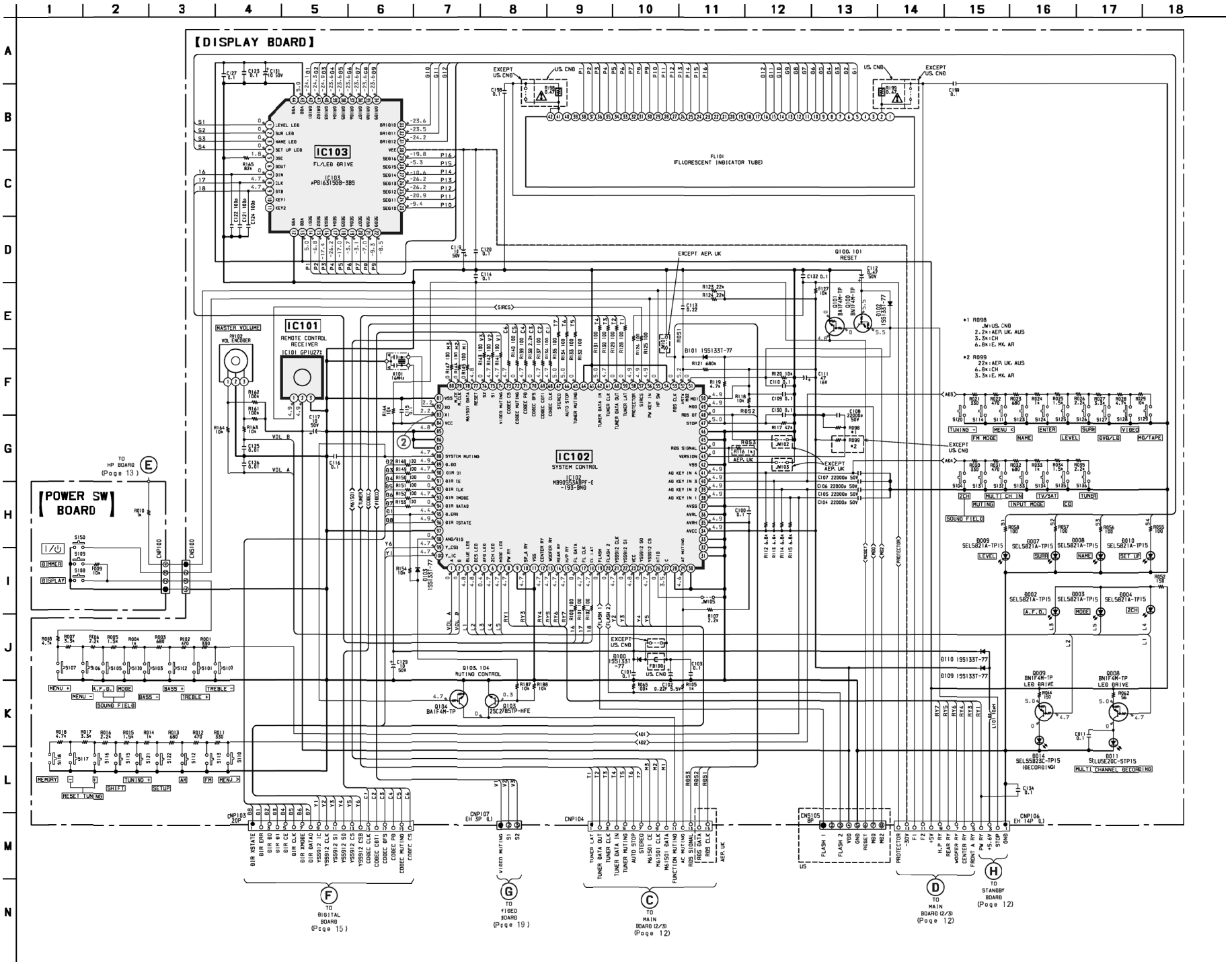


• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D1101	C-7	IC1006	C-7
D1201	D-3	IC1007	E-7
D1202	D-3	IC1008	D-6
D1301	B-3	IC1009	C-3
		IC1010	B-3
IC1002	A-2	IC1011	E-1
IC1003	B-5	IC1013	B-3
IC1004	B-7	IC1201	E-6
IC1005	B-8	IC1251	E-5

3-10. SCHEMATIC DIAGRAM – DISPLAY SECTION –

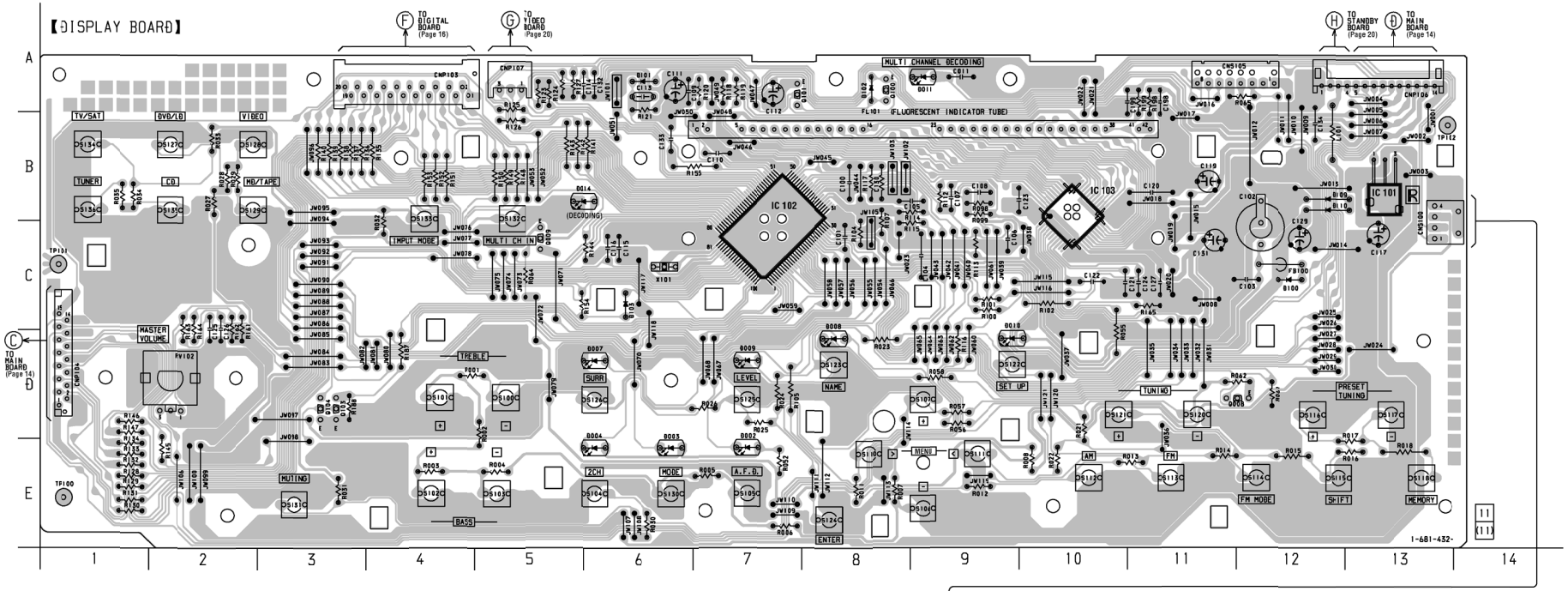
• See page 23 for IC Pin Function. • See page 7 for Waveforms.

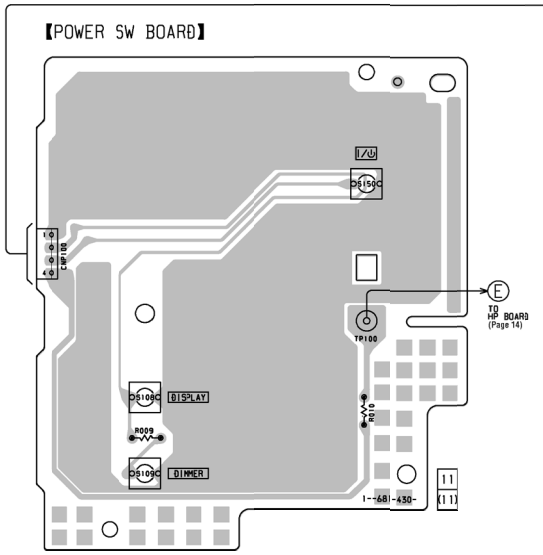


3-11. PRINTED WIRING BOARD – DISPLAY SECTION –

• See page 8 for Circuit Boards Location.

There are a few cases that the part printed on this diagram isn't mounted in this model.

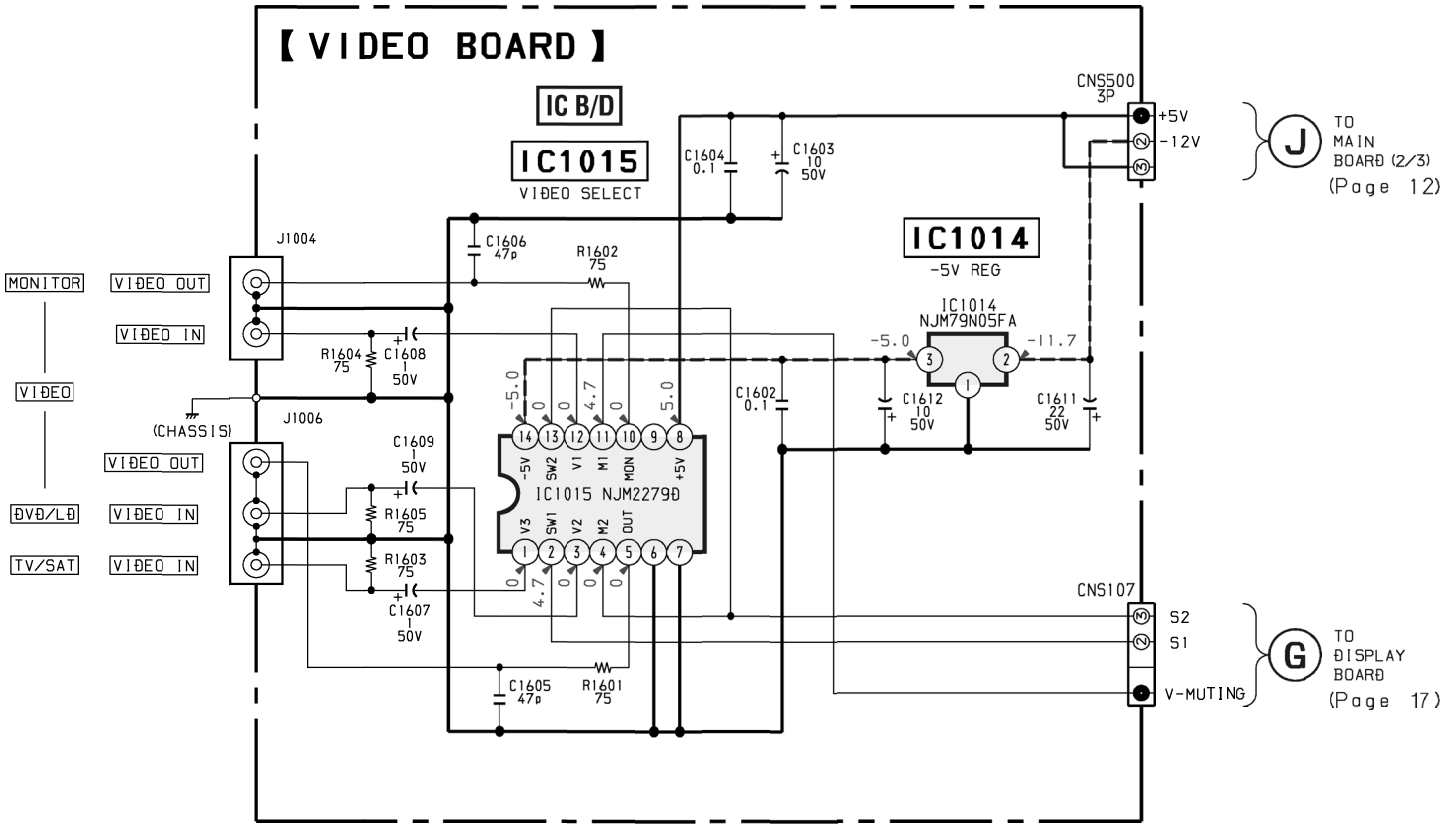




• **Semiconductor Location**

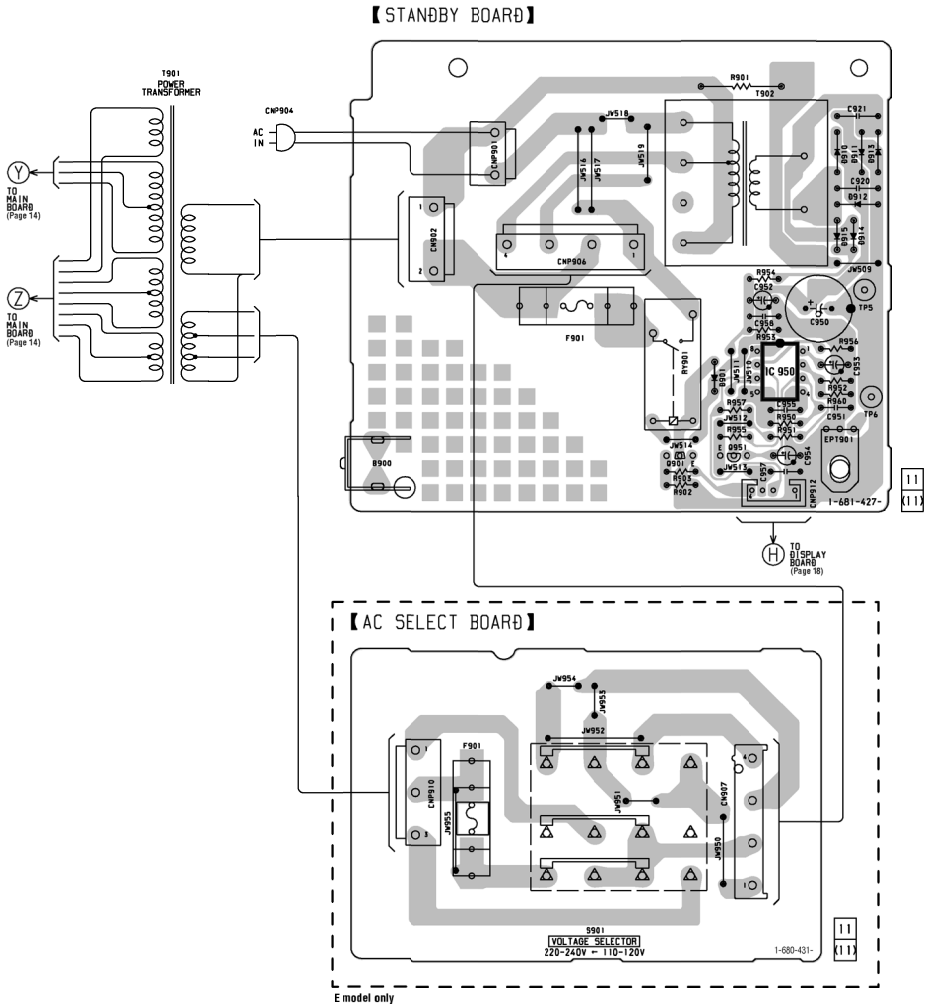
Ref. No.	Location
D002	E-7
D003	E-6
D004	E-6
D007	D-6
D008	C-8
D009	D-7
D010	D-9
D011	A-9
D014	B-5
D100	C-12
D101	A-6
D102	A-8
D103	C-6
D109	B-12
D110	B-12
IC101	B-13
IC102	B-7
IC103	B-10
Q008	D-12
Q009	C-5
Q100	A-8
Q101	A-7
Q103	D-3
Q104	D-3

3-12. SCHEMATIC DIAGRAM – VIDEO SECTION – • See page 21 for IC Block Diagram. • See page 13 for Printed Wiring Board.



3-13. PRINTED WIRING BOARD – POWER SECTION

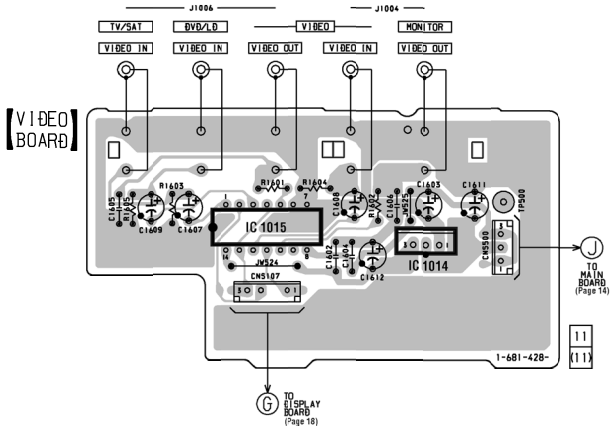
• See page 8 for Circuit Boards Location.



3-14. PRINTED WIRING BOARD – VIDEO SECTION

• See page 8 for Circuit Boards Location.
• See page 20 for Schematic Diagram.

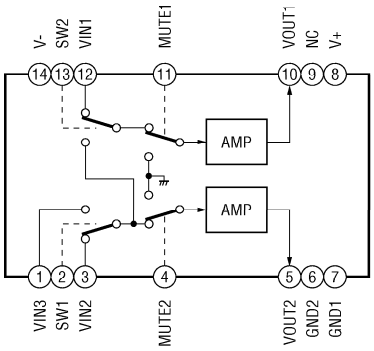
There are a few cases that the part printed on this diagram isn't mounted in this model.



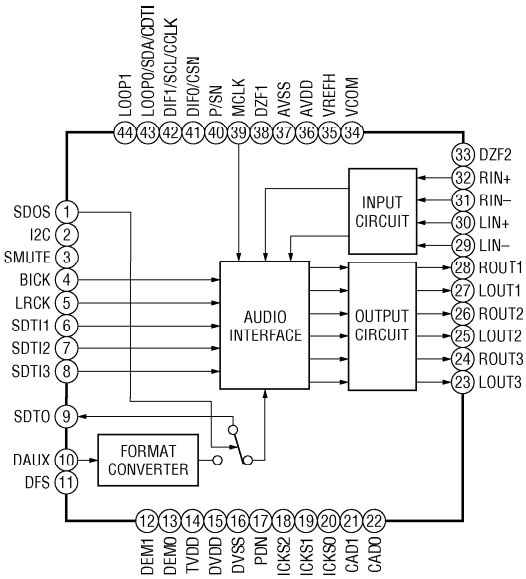
20

3-15. IC BLOCK DIAGRAMS

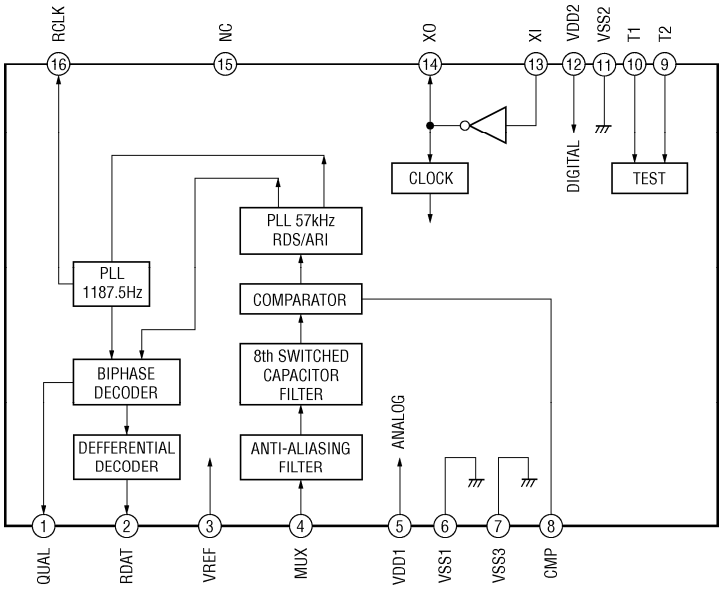
IC1015 NJM2279D (VIDEO BOARD)



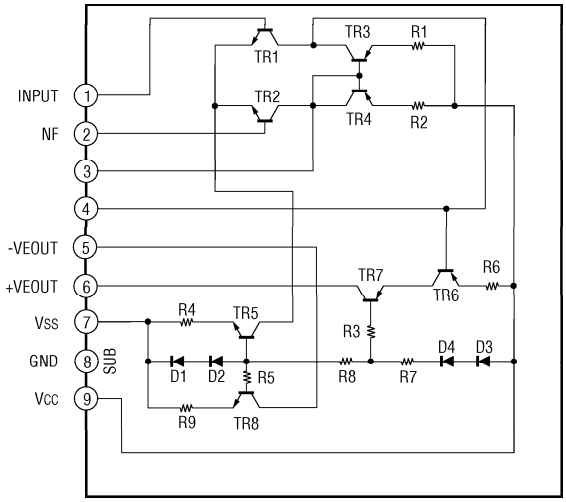
IC1008 AK4527 (DIGITAL BOARD)



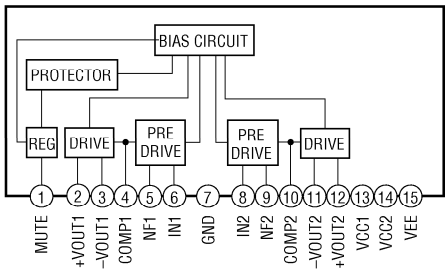
IC301 BU1924F-E2 (MAIN BOARD)



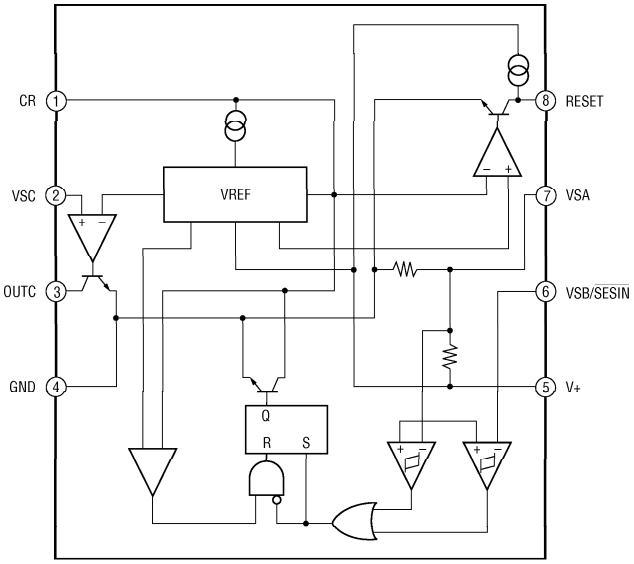
IC501 STK350-230 (MAIN BOARD)



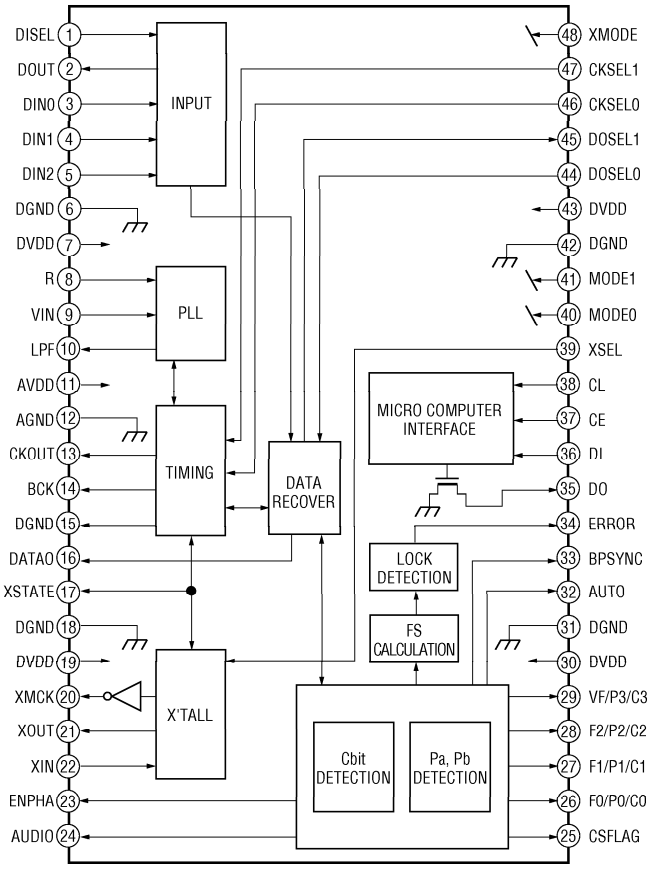
IC701 uPC2581V (MAIN BOARD)
IC702 uPC2581V (MAIN BOARD)



IC950 NJM2103D (STANDBY BOARD)



IC1004 LC89055W-RA8 (DIGITAL BOARD)



3-16. IC PIN FUNCTION DESCRIPTION

• IC102 MB90553ABPF-G-193-BND (SYSTEM CONTROL)

Pin No.	Pin Name	I/O	Description
1	A	I	Read volume encoder A changing
2	B	I	Read volume encoder B changing
3	BLUE LED	O	Control Blue LED
4	DCS LED	O	Control DCS LED
5	AFD LED	O	Control AFD LED
6	2CH LED	O	Control 2CH LED
7	MOD LED	O	Control MODE LED
8	PW RY	O	Control power relay
9	P30	—	
10	SP_A RY	O	Control front speaker relay
11	VSS	—	Ground
12	CENTER RY	O	Control center speaker relay
13	WOOFER RY	O	Control woofer relay
14	REAR RY	O	Control rear speaker relay
15	H/P RY	O	Control headphone relay
16	FL DATA	O	Output data signal to FL tube driver
17	FL CLK	O	Output clock signal to FL tube driver
18	FL LAT	O	Output latch signal to FL tube driver
19	FLASH 1	I	Input FLASH 1 signal
20	FLASH 2	I	Input FLASH 2 signal
21	YSS912 CLK	O	Output clock signal to DSP
22	YSS912 SI	O	Output data signal to DSP
23	VCC	—	Power supply
24	YSS912 SO	I	Input data signal from DSP
25	YSS912 CS	O	Output chip select signal to DSP
26	HTIB	I	Input HTIB signal
27	C	—	Power stabilizing capacitor
28	P50	—	
29	AC MUTING	O	Control power to power amp
30	P52	—	
31	P53	—	
32	P54	—	
33	P55	—	
34	AVCC	—	Analog power supply
35	AVRH	—	
36	AVRL	—	
37	AVSS	—	Analog ground
38	AD KEY IN 1	I	Read key push signal
39	AD KEY IN 2	I	Read key push signal
40	AD KEY IN 3	I	Read key push signal
41	AD KEY IN 4	I	Read key push signal
42	VSS	—	Ground
43	VERSION	I	Read version setting
44	RDS SIGNAL	I	Detect RDS signal level
45	P66	—	
46	P67	—	
47	STOP	I	Input signal when AC off
48	RDS DT	I	Read RDS data
49	MD0	—	Selection of micom operation mode
50	MD1	—	Selection of micom operation mode

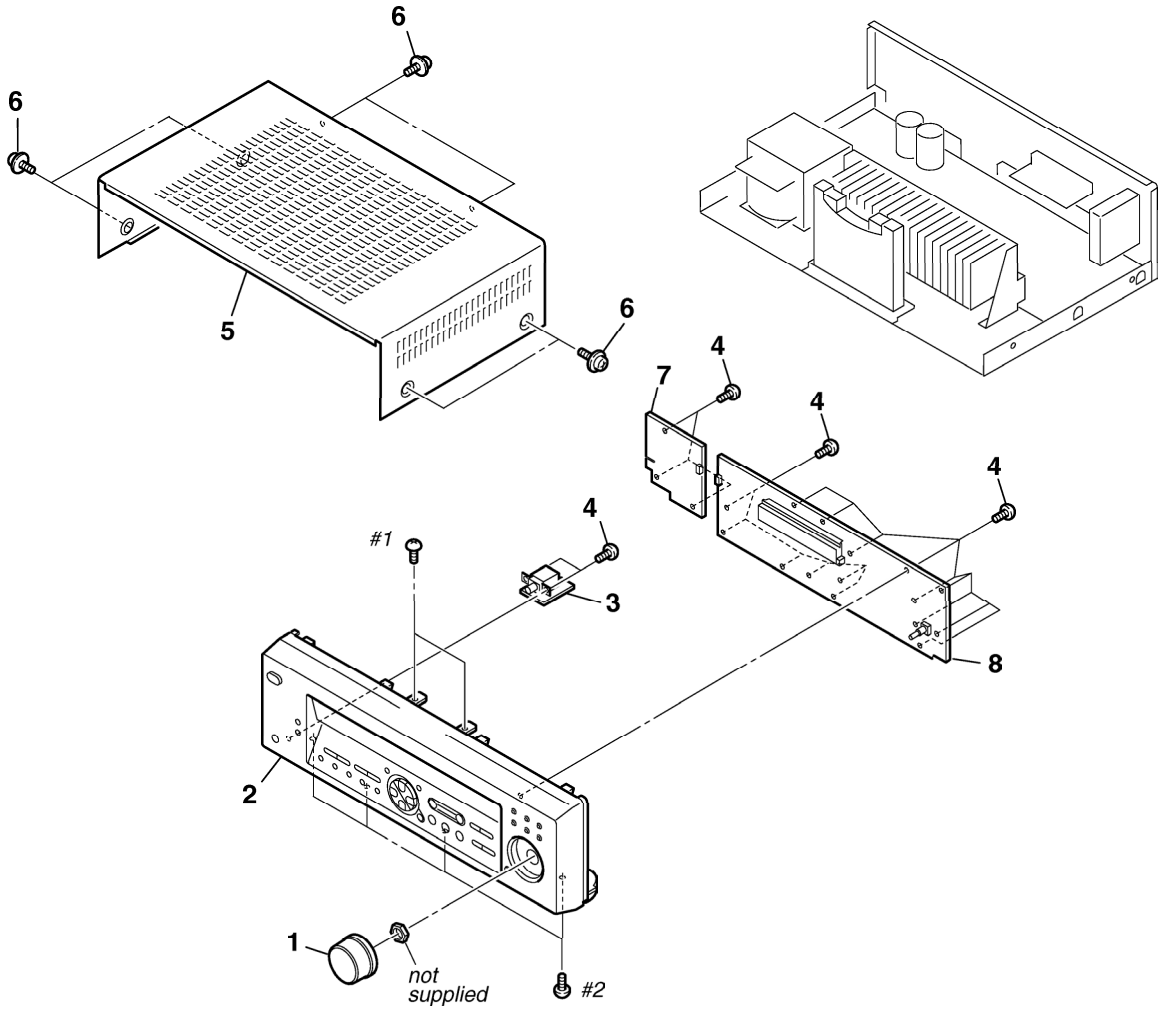
Pin No.	Pin Name	I/O	Description
51	MD2	—	Selection of micom operation mode
52	HSTX	—	Hardware standby signal
53	RDS CLK	I	Read RDS clock
54	P73	—	
55	HP SW	I	Detect headphone switch
56	PW KEY IN	I	Detect power switch key
57	SIRCS	I	Input data from remote control receiver
58	PROTECTOR	I	Detect protector status
59	TUNER LAT	O	Output latch signal to tuner
60	TUNER DATA OUT	O	Output data signal to tuner
61	TUNER CLK	O	Output clock signal to tuner
62	TUNER DATA IN	I	Input tuner freq. data
63	P84	—	
64	P85	—	
65	TUNER MUTING	O	Mute tuner during scanning
66	AUTO STOP	I	Tuner has tuned to a freq.
67	STEREO	I	Tuned freq. has stereo
68	CODEC CLK	O	Output clock signal to CODEC
69	CODEC CDT1	O	Output Control Data signal to CODEC
70	CODEC DFS	O	Output DFS mode signal to CODEC
71	CODEC PD	O	Output Power Down signal to CODEC
72	CODEC MUTING	O	Output Soft Muting signal to CODEC
73	CODEC CS	O	Output CS signal to CODEC
74	VIDEO MUTING	O	Control Video muting
75	S1	O	Control Video IC switching
76	S2	O	Control Video IC switching
77	RESET	I	Detect reset signal
78	M61501 DATA	O	Output data signal to sound processor
79	M.CLK	O	Output clock signal to sound processor
80	M.CE	O	Output chip enable signal to sound processor
81	VSS	—	Ground
82	X0	—	For micom clock
83	X1	—	
84	VCC	—	Power supply
85	P00	—	
86	P01	—	
87	P02	—	
88	SYSTEM MUTING	O	Control muting circuit
89	D.DO	I	Input data signal from DIR
90	DIR DI	O	Output data signal to DIR
91	DIR CE	O	Output CE signal to DIR
92	DIR CLK	O	Output clock signal to DIR
93	DIR XMODE	O	Output reset signal to DIR
94	DIR DATAO	I	Input audio data signal from DIR
95	D.ERR	I	Input PLL error muting from DIR
96	DIR XSTATE	I	Input XSTATE data from DIR
97	P14	—	
98	ANG/DIG	O	Control muting circuit
99	Y_CSB	O	Output CSB signal to DSP
100	Y_IC	O	Output IC signal to DSP

SECTION 4
EXPLODED VIEWS

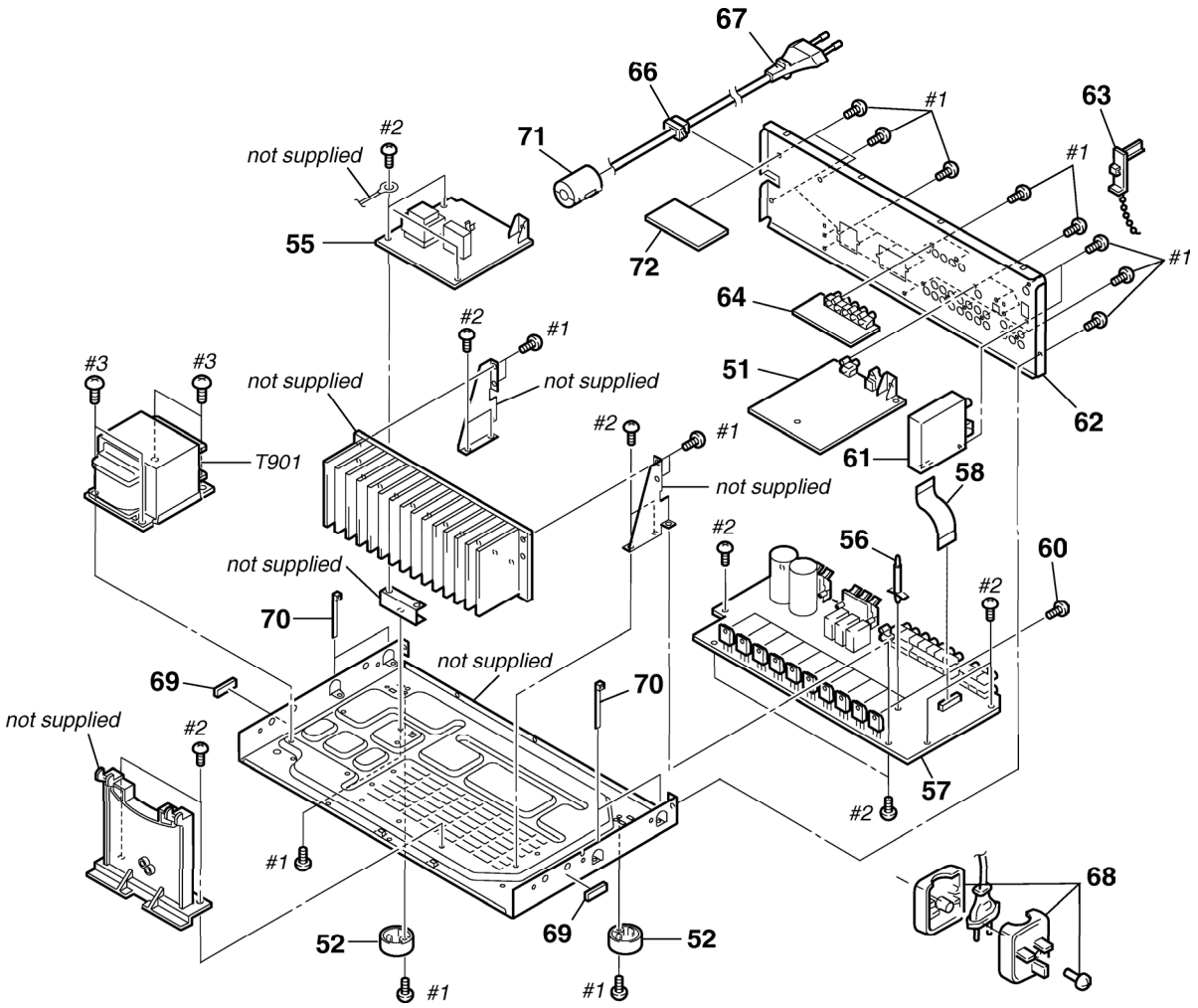
NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Color Indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts of Color Cabinet's Color
- The mechanical parts with no reference number in the exploded views are not supplied.
- Accessories and packing materials are given in the last of this parts list.
- Abbreviation
  CND: Canadian model.
  AUS : Australian model.
  AR : Argentine model.
  CH : Chinese model.
  MX : Mexican model.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。



Ref. No.	Part No.	Description	Remarks
1	4-232-113-01	KNOB (VOL) (FOR BLACK)	
1	4-232-113-11	KNOB (VOL) (FOR SILVER)	
1	4-232-113-21	KNOB (VOL) (FOR GOLD)	
2	X-4953-356-1	FRONT PANEL ASSY (BLACK)(US)	
2	X-4953-435-1	FRONT PANEL ASSY (BLACK)(MX,AUS)	
2	X-4953-436-1	FRONT PANEL ASSY (GOLD)(CH)	
2	X-4953-437-1	FRONT PANEL ASSY (BLACK)(AEP,UK)	
2	X-4953-508-1	FRONT PANEL ASSY (BLACK)(CND)	
2	X-4953-689-1	FRONT PANEL ASSY (SILVER)(US)	
2	X-4953-764-1	FRONT PANEL ASSY (SILVER)(E,AR,AUS,CH)	
2	X-4953-765-1	FRONT PANEL ASSY (SILVER)(AEP,UK)	
3	1-681-429-11	*HP BOARD*	
4	4-951-620-01	SCREW (2.6X8), +BVTP	
5	4-232-118-01	CASE (BLACK)	
5	4-232-118-21	CASE (SILVER)	
5	4-232-118-41	CASE(GOLD)	
6	4-210-291-01	SCREW (CASE 3 TP2)(FOR BLACK)	
6	4-210-291-21	SCREW (CASE 3 TP2)(FOR SILVER,GOLD)	
7	1-681-430-11	POWER SW BOARD	
8	A-2007-948-A	DISPLAY BOARD, COMPLETE (US)	
8	A-2007-950-A	DISPLAY BOARD, COMPLETE (CND)	
8	A-2007-953-A	DISPLAY BOARD, COMPLETE (AEP,UK)	
8	A-2007-955-A	DISPLAY BOARD, COMPLETE (AUS)	
8	A-2007-957-A	DISPLAY BOARD, COMPLETE (CH)	
8	A-4725-731-A	DISPLAY BOARD, COMPLETE (E,MX,AR)	
#1	*7-685-646-79*	*SCREW +BVTP 3X8 TYPE2 IT-3*	
#2	7-685-645-79	SCREW +BVTP 3X6 TYPE2 N-S	



Ref. No.	Part No.	Description	Remarks
51	A-2007-946-A	DIGITAL BOARD, COMPLETE	
52	4-232-237-01	FOOT (DIA. 30)	
55	A-2007-945-A	STANDBY BOARD, COMPLETE (US,CND)	
55	A-2007-952-A	STANDBY BOARD, COMPLETE	(AEP,UK,AR,AUS,CH)
55	A-4725-727-A	STANDBY BOARD, COMPLETE (MX)	
55	A-4725-729-A	STANDBY BOARD, COMPLETE (E)	
* 56	4-924-098-91	HOLDER, PC BOARD	
57	A-2007-941-A	MAIN BOARD, COMPLETE (US)	
57	A-2007-949-A	MAIN BOARD, COMPLETE (CND)	
57	A-2007-951-A	MAIN BOARD, COMPLETE (AEP,UK)	
57	A-2007-954-A	MAIN BOARD, COMPLETE (MX,AR,AUS,CH)	
57	A-4725-730-A	MAIN BOARD, COMPLETE (E)	
58	1-773-001-11	WIRE (FLAT TYPE) (15 CORE)	
60	3-905-609-01	SCREW (TRANSISTOR)	
61	1-693-407-21	TUNER (US,CND,E,MX,AR)	
61	1-693-408-41	TUNER (AEP,UK,AUS,CH)	
62	4-233-753-01	BACK PANEL (DE475) (US)	
62	4-233-753-11	BACK PANEL (DE475) (CND)	
62	4-233-753-21	BACK PANEL (DE475) (AUS)	
62	4-233-753-41	BACK PANEL (DE475) (CH)	
62	4-233-753-51	BACK PANEL (DE475) (E)	
62	4-233-753-61	BACK PANEL (DE475) (AEP)	
62	4-233-753-71	BACK PANEL (DE475) (UK)	
62	4-233-753-81	BACK PANEL (DE475) (MX)	

Ref. No.	Part No.	Description	Remarks
62	4-233-753-91	BACK PANEL (DE475) (AR)	
63	4-956-370-02	BAND, PLUG FIXED (UK,AUS)	
64	1-681-428-11	VIDEO BOARD	
66	3-703-244-00	BUSHING (FBS001), CORD	
⚠67	1-696-847-11	CORD, POWER (AUS)	
⚠67	1-777-071-21	CORD, POWER (AEP,UK)	
⚠67	1-783-205-11	CORD, POWER (CH)	
⚠67	1-783-820-11	CORD, POWER (US,CND,E)	
⚠67	1-783-941-12	CORD, POWER (AR)	
⚠68	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (UK)	
69	4-921-941-01	CUSHION	
70	3-701-748-00	CLAMP	
71	1-500-386-11	FILTER, CLAMP (FERRITE CORE)	(AEP,UK,AUS,CH)
72	1-681-431-11	AC SELECT BOARD (E)	
⚠T901	1-435-312-11	TRANSFORMER, POWER (CND)	
⚠T901	1-435-313-11	TRANSFORMER, POWER (US)	
⚠T901	1-435-908-11	POWER TRANSFORMER (AEP,UK,CH)	
⚠T901	1-435-909-11	POWER TRANSFORMER (E)	
⚠T901	1-435-910-11	POWER TRANSFORMER (AUS)	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#2	7-685-645-79	SCREW +BVTP 3X6 TYPE2 N-S	
#3	7-685-880-09	SCREW +BVTT 4X6 (S)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.	以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

SECTION 5
ELECTRICAL PARTS LIST

AC SELECT **DIGITAL**

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Abbreviation
  CND: Canadian model.
  AUS : Australian model.
  AR : Argentine model.
  CH : Chinese model.
  MX : Mexican model.

- CAPACITORS:
  uF: µF
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- COILS
  uH: µH

When indicating parts by reference number, please include the board name.

- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... ,
  uPB... , µPB... , uPC... , µPC... ,
  uPD..., µPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

Ref. No.	Part No.	Description			Remarks
	1-680-431-11	AC SELECT BOARD (E)			
		**********			
		< SWITCH >			
⚠S901	1-571-437-21	SWITCH, POWER VOLTAGE CHANGE (VOLTAGE SELECTOR)			
**********					
	A-2007-946-A	DIGITAL BOARD, COMPLETE			
		**********			
	7-685-645-79	SCREW +BVTP	3X6	TYPE2 N-S	
		< CAPACITOR >			
C1002	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1101	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1102	1-163-021-11	CERAMIC CHIP	0.01uF	10.00%	50V
C1103	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1104	1-104-664-11	ELECT	47uF	20.00%	16V
C1105	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1106	1-163-021-11	CERAMIC CHIP	0.01uF	10.00%	50V
C1107	1-104-664-11	ELECT	47uF	20.00%	16V
C1108	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1109	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1110	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1111	1-163-021-11	CERAMIC CHIP	0.01uF	10.00%	50V
C1112	1-163-233-11	CERAMIC CHIP	18PF	5.00%	50V
C1113	1-163-233-11	CERAMIC CHIP	18PF	5.00%	50V
C1114	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1115	1-104-664-11	ELECT	47uF	20.00%	16V
C1116	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C1201	1-126-965-11	ELECT	22uF	20.00%	50V
C1202	1-106-347-00	MYLAR	1500PF	5%	200V
C1221	1-126-965-11	ELECT	22uF	20.00%	50V
C1222	1-126-965-11	ELECT	22uF	20.00%	50V
C1223	1-126-965-11	ELECT	22uF	20.00%	50V
C1224	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1225	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1226	1-126-964-11	ELECT	10uF	20.00%	50V
C1227	1-163-275-11	CERAMIC CHIP	0.001uF	10.00%	16V
C1228	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1229	1-104-664-11	ELECT	47uF	20.00%	16V
C1230	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C1230	1-165-319-11	CERAMIC CHIP	0.1uF		50V

Ref. No.	Part No.	Description			Remarks
C1231	1-126-964-11	ELECT	10uF	20.00%	50V
C1232	1-126-935-11	ELECT	470uF	20.00%	6.3V
C1233	1-126-960-11	ELECT	1uF	20.00%	50V
C1251	1-126-965-11	ELECT	22uF	20.00%	50V
C1252	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1253	1-126-964-11	ELECT	10uF	20.00%	50V
C1254	1-106-347-00	MYLAR	1500PF	5%	200V
C1271	1-126-965-11	ELECT	22uF	20.00%	50V
C1272	1-126-965-11	ELECT	22uF	20.00%	50V
C1273	1-126-965-11	ELECT	22uF	20.00%	50V
C1301	1-126-935-11	ELECT	470uF	20.00%	6.3V
C1302	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1303	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1304	1-104-664-11	ELECT	47uF	20.00%	16V
C1305	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1306	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1307	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1308	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1309	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1310	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1311	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1312	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1313	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1314	1-126-960-11	ELECT	1uF	20.00%	50V
C1315	1-126-935-11	ELECT	470uF	20.00%	6.3V
C1316	1-126-935-11	ELECT	470uF	20.00%	6.3V
C1317	1-126-960-11	ELECT	1uF	20.00%	50V
C1318	1-104-665-11	ELECT	100uF	20.00%	10V
C1320	1-126-935-11	ELECT	470uF	20.00%	6.3V
C1321	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1322	1-163-243-11	CERAMIC CHIP	47PF	5.00%	50V
C1323	1-163-217-11	CERAMIC CHIP	1PF	0.25PF	50V
C1324	1-126-965-11	ELECT	22uF	20.00%	50V
C1325	1-163-021-11	CERAMIC CHIP	0.01uF	10.00%	50V
C1329	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C1330	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
		< CONNECTOR >			
CNP501	1-784-927-11	PIN, CONNECTOR 12P			
* CNP502	1-564-506-11	PLUG, CONNECTOR 3P			
CNS103	1-794-006-11	CONNECTOR 20P			

DIGITAL DISPLAY

Ref. No.	Part No.	Description			Remarks
		< DIODE >			
D1101	8-719-016-74	DIODE 1SS352-TPH3			
D1201	8-719-016-74	DIODE 1SS352-TPH3			
D1202	8-719-016-74	DIODE 1SS352-TPH3			
D1301	8-719-016-74	DIODE 1SS352-TPH3			
		< FERRITE BEAD >			
FB1101	1-414-813-11	FERRITE	0UH		
FB1102	1-469-152-11	FERRITE	0UH		
FB1103	1-469-152-11	FERRITE	0UH		
FB1104	1-469-152-11	FERRITE	0UH		
FB1105	1-469-152-11	FERRITE	0UH		
FB1106	1-469-152-11	FERRITE	0UH		
FB1107	1-469-152-11	FERRITE	0UH		
FB1108	1-469-152-11	FERRITE	0UH		
FB1201	1-414-813-11	FERRITE	0UH		
FB1301	1-414-813-11	FERRITE	0UH		
FB1302	1-414-813-11	FERRITE	0UH		
FB1303	1-414-813-11	FERRITE	0UH		
FB1304	1-414-813-11	FERRITE	0UH		
FB1305	1-414-813-11	FERRITE	0UH		
		< IC >			
IC1002	8-749-923-05	TORX178B(OPTICAL(TV/SAT IN))			
IC1003	8-759-242-70	IC TC7WU04F(TE12R)			
IC1004	8-759-639-35	IC LC89055W-RA8			
IC1005	8-759-242-70	IC TC7WU04F(TE12R)			
IC1006	8-759-643-42	IC CXD9511AQ			
IC1007	8-759-697-47	IC IDT71256SA20Y-TL			
IC1008	8-759-657-47	IC AK4527			
IC1009	8-759-039-69	IC uPC7805AHF			
IC1010	8-759-647-10	IC uPC2933HF			
IC1011	8-759-039-69	IC uPC7805AHF			
IC1013	8-759-039-69	IC uPC7805AHF			
IC1201	8-759-099-06	IC M5218AFP-TE1			
IC1251	8-759-099-06	IC M5218AFP-TE1			
		< JACK >			
J1001	1-784-431-11	JACK, PIN 1P (COAXIAL(DVD/LD IN))			
		< JUMPER RESISTOR >			
JW1102	1-216-295-11	SHORT	0		
		< RESISTOR >			
R1002	1-216-025-11	RES-CHIP	100	5%	1/10W
R1003	1-216-022-00	METAL CHIP	75	5%	1/10W
R1101	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1102	1-216-066-00	METAL CHIP	5.1K	5%	1/10W
R1103	1-216-066-00	METAL CHIP	5.1K	5%	1/10W
R1104	1-216-022-00	METAL CHIP	75	5%	1/10W
R1110	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1111	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1112	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1113	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1114	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1115	1-216-043-00	RES-CHIP	560	5%	1/10W
R1116	1-216-121-11	RES-CHIP	1M	5%	1/10W
R1117	1-216-025-11	RES-CHIP	100	5%	1/10W
R1118	1-216-025-11	RES-CHIP	100	5%	1/10W
R1119	1-216-025-11	RES-CHIP	100	5%	1/10W
R1120	1-216-025-11	RES-CHIP	100	5%	1/10W
R1201	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1202	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R1203	1-216-037-00	METAL CHIP	330	5%	1/10W
R1204	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1205	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1206	1-216-037-00	METAL CHIP	330	5%	1/10W
R1221	1-216-025-11	RES-CHIP	100	5%	1/10W
R1222	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1223	1-216-097-11	RES-CHIP	100K	5%	1/10W
R1251	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1252	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R1253	1-216-037-00	METAL CHIP	330	5%	1/10W
R1254	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1255	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1256	1-216-037-00	METAL CHIP	330	5%	1/10W
R1257	1-216-065-00	RES-CHIP	4.7K	5%	1/10W
R1258	1-216-065-00	RES-CHIP	4.7K	5%	1/10W
R1301	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1302	1-216-025-11	RES-CHIP	100	5%	1/10W
R1303	1-216-025-11	RES-CHIP	100	5%	1/10W
R1304	1-216-025-11	RES-CHIP	100	5%	1/10W
R1305	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1306	1-216-081-00	METAL CHIP	22K	5%	1/10W
R1307	1-216-115-00	METAL CHIP	560K	5%	1/10W
R1308	1-216-115-00	METAL CHIP	560K	5%	1/10W
R1309	1-216-025-11	RES-CHIP	100	5%	1/10W
R1310	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1312	1-216-025-11	RES-CHIP	100	5%	1/10W
R1313	1-216-025-11	RES-CHIP	100	5%	1/10W
R1314	1-216-025-11	RES-CHIP	100	5%	1/10W
R1315	1-216-025-11	RES-CHIP	100	5%	1/10W
R1316	1-216-025-11	RES-CHIP	100	5%	1/10W
R1317	1-216-025-11	RES-CHIP	100	5%	1/10W
		< VIBRATOR >			
X1101	1-781-465-21	VIBRATOR, CRYSTAL 12.288MHz			
**********					
	A-2007-948-A	DISPLAY BOARD, COMPLETE (US)			
		**********			
	A-2007-950-A	DISPLAY BOARD, COMPLETE (CND)			
		**********			
	A-2007-953-A	DISPLAY BOARD, COMPLETE (AEP,UK)			
		**********			
	A-2007-955-A	DISPLAY BOARD, COMPLETE (AUS)			
		**********			
	A-2007-957-A	DISPLAY BOARD, COMPLETE (CH)			
		**********			
	A-4725-731-A	DISPLAY BOARD, COMPLETE (E,MX,AR)			
		**********			
	3-386-245-21	HOLDER (FL)			
*	4-921-941-01	CUSHION (FL)			
		< CAPACITOR >			
C011	1-164-159-11	CERAMIC	0.1uF		50V
C100	1-164-159-11	CERAMIC	0.1uF		50V
C101	1-164-159-11	CERAMIC	0.1uF		50V
C102	1-104-905-11	CAPACITOR	0.22F		5.5V
C103	1-164-159-21	CERAMIC	0.1uF		50V

Ref. No.	Part No.	Description			Remarks
C104	1-127-880-31	CERAMIC	0.022uF	10%	50V
C105	1-127-880-31	CERAMIC	0.022uF	10%	50V
C106	1-127-880-31	CERAMIC	0.022uF	10%	50V
C107	1-127-880-31	CERAMIC	0.022uF	10%	50V
C108	1-127-880-31	CERAMIC	0.022uF	10%	50V
C109	1-164-159-11	CERAMIC	0.1uF		50V
C110	1-164-159-11	CERAMIC	0.1uF		50V
C111	1-124-589-11	ELECT	47uF	20%	16V
C112	1-126-163-11	ELECT	4.7uF	20%	50V
C113	1-136-169-00	FILM	0.22uF	5.00%	50V
C114	1-164-159-11	CERAMIC	0.1uF		50V
C115	1-164-159-11	CERAMIC	0.1uF		50V
C116	1-164-159-11	CERAMIC	0.1uF		50V
C117	1-124-261-00	ELECT	10uF	20%	50V
C119	1-124-261-00	ELECT	10uF	20%	50V
C120	1-164-159-11	CERAMIC	0.1uF		50V
C121	1-128-809-11	CERAMIC	100PF	5%	50V
C122	1-128-809-11	CERAMIC	100PF	5%	50V
C123	1-164-159-11	CERAMIC	0.1uF		50V
C124	1-128-809-11	CERAMIC	100PF	5%	50V
C125	1-162-306-11	CERAMIC	0.01uF	30.00%	16V
C126	1-162-306-11	CERAMIC	0.01uF	30.00%	16V
C127	1-164-159-11	CERAMIC	0.1uF		50V
C129	1-124-261-00	ELECT	10uF	20%	50V
C130	1-164-159-21	CERAMIC	0.1uF		50V
C131	1-124-261-00	ELECT	10uF	20%	50V
C132	1-164-159-11	CERAMIC	0.1uF		50V
C134	1-164-159-11	CERAMIC	0.1uF		50V
C198	1-164-159-11	CERAMIC	0.1uF		50V
C199	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
* CNP100	1-565-480-11	CONNECTOR, BOARD TO BOARD 4P (US,AEP,UK,CH)			
CNP103	1-794-001-11	CONNECTOR 20P			
CNP104	1-794-002-11	CONNECTOR 13P (US,CND,CH)			
CNP104	1-794-003-11	CONNECTOR 15P (AEP,AEP,UK)			
* CNP106	1-564-730-11	PIN, CONNECTOR (SMALL TYPE)14P (US,CND,AEP,UK,AUS,CH)			
* CNP107	1-564-518-11	PLUG, CONNECTOR 3P (US,CND,AEP,UK,AUS,CH)			
* CNS100	1-565-480-11	CONNECTOR, BOARD TO BOARD 4P			
* CNS105	1-695-808-11	CONNECTOR, PC BOARD 8P (US)			
		< DIODE >			
D002	8-719-046-39	DIODE SEL5821A-TP15			
D003	8-719-046-39	DIODE SEL5821A-TP15			
D004	8-719-046-39	DIODE SEL5821A-TP15			
D007	8-719-046-39	DIODE SEL5821A-TP15			
D008	8-719-046-39	DIODE SEL5821A-TP15			
D009	8-719-046-39	DIODE SEL5821A-TP15			
D010	8-719-046-39	DIODE SEL5821A-TP15			
D011	8-719-072-82	DIODE SELU5E20C-STP15			
D014	8-719-075-59	DIODE SELS5B23C-TP15			
D100	8-719-991-33	DIODE 1SS133T-77			
D101	8-719-991-33	DIODE 1SS133T-77			
D102	8-719-991-33	DIODE 1SS133T-77			
D103	8-719-991-33	DIODE 1SS133T-77			
D109	8-719-991-33	DIODE 1SS133T-77			
D110	8-719-991-33	DIODE 1SS133T-77			

Ref. No.	Part No.	Description		Remarks
		< FERRITE BEAD >		
FB100	1-412-473-41	INDUCTOR	0UH (US,CND)	
		< FILTER >		
FL101	1-518-718-11	INDICATOR TUBE, FLUORESCENT		
		< IC >		
IC101	8-749-011-22	IC GP1U27X		
IC102	6-800-001-01	IC MB90553ABPF-G-193-BND		
IC103	8-759-643-83	IC uPD16315GB-3BS		
		< COIL >		
L101	1-408-117-00	INDUCTOR	10uH	
		< TRANSISTOR >		
Q008	8-729-900-63	TRANSISTOR	BN1F4M-TP	
Q009	8-729-900-63	TRANSISTOR	BN1F4M-TP	
Q100	8-729-900-63	TRANSISTOR	BN1F4M-TP	
Q101	8-729-900-36	TRANSISTOR	BA1F4M-TP	
Q103	8-729-119-78	TRANSISTOR	2SC2785TP-HFE	
Q104	8-729-900-36	TRANSISTOR	BA1F4M-TP	
		< RESISTOR >		
R001	1-249-411-11	CARBON	330 5% 1/4W	
R002	1-249-413-11	CARBON	470 5% 1/4W	F
R003	1-249-415-11	CARBON	680 5% 1/4W	F
R004	1-249-417-11	CARBON	1K 5% 1/4W	F
R005	1-249-419-11	CARBON	1.5K 5% 1/4W	F
R006	1-249-421-11	CARBON	2.2K 5% 1/4W	F
R007	1-247-843-11	CARBON	3.3K 5% 1/4W	
R008	1-249-425-11	CARBON	4.7K 5% 1/4W	F
R011	1-249-411-11	CARBON	330 5% 1/4W	
R012	1-249-413-11	CARBON	470 5% 1/4W	F
R013	1-249-415-11	CARBON	680 5% 1/4W	F
R014	1-249-417-11	CARBON	1K 5% 1/4W	F
R015	1-249-419-11	CARBON	1.5K 5% 1/4W	F
R016	1-249-421-11	CARBON	2.2K 5% 1/4W	F
R017	1-247-843-11	CARBON	3.3K 5% 1/4W	
R018	1-249-425-11	CARBON	4.7K 5% 1/4W	F
R021	1-249-411-11	CARBON	330 5% 1/4W	
R022	1-249-413-11	CARBON	470 5% 1/4W	F
R023	1-249-415-11	CARBON	680 5% 1/4W	F
R024	1-249-417-11	CARBON	1K 5% 1/4W	F
R025	1-249-419-11	CARBON	1.5K 5% 1/4W	F
R026	1-249-421-11	CARBON	2.2K 5% 1/4W	F
R027	1-247-843-11	CARBON	3.3K 5% 1/4W	
R028	1-249-425-11	CARBON	4.7K 5% 1/4W	F
R029	1-249-429-11	CARBON	10K 5% 1/4W	
R030	1-249-411-11	CARBON	330 5% 1/4W	
R031	1-249-413-11	CARBON	470 5% 1/4W	F
R032	1-249-415-11	CARBON	680 5% 1/4W	F
R033	1-249-417-11	CARBON	1K 5% 1/4W	F
R034	1-249-419-11	CARBON	1.5K 5% 1/4W	F
R035	1-249-421-11	CARBON	2.2K 5% 1/4W	F
R052	1-249-407-11	CARBON	150 5% 1/4W	F
R055	1-247-807-31	CARBON	100 5% 1/4W	
R056	1-247-807-31	CARBON	100 5% 1/4W	
R057	1-247-807-31	CARBON	100 5% 1/4W	

DISPLAY

Ref. No.	Part No.	Description			Remarks
R058	1-247-807-31	CARBON	100	5%	1/4W
R062	1-249-402-11	CARBON	56	5%	1/4W F
R064	1-249-407-11	CARBON	150	5%	1/4W F
R065	1-249-441-11	CARBON	100K	5%	1/4W
R098	1-249-421-11	CARBON	2.2K	5%	1/4W F (AEP,UK,AUS)
R098	1-247-843-11	CARBON	3.3K	5%	1/4W (CH)
R098	1-249-427-11	CARBON	6.8K	5%	1/4W F (E,MX,AR)
R099	1-249-433-11	CARBON	22K	5%	1/4W (AEP,UK,AUS)
R099	1-249-427-11	CARBON	6.8K	5%	1/4W F (CH)
R099	1-247-843-11	CARBON	3.3K	5%	1/4W (E,MX,AR)
R100	1-247-807-31	CARBON	100	5%	1/4W
R101	1-247-807-31	CARBON	100	5%	1/4W
R102	1-247-807-31	CARBON	100	5%	1/4W
R105	1-249-417-11	CARBON	1K	5%	1/4W F
R107	1-249-421-11	CARBON	2.2K	5%	1/4W F
R112	1-249-427-11	CARBON	6.8K	5%	1/4W F
R113	1-249-427-11	CARBON	6.8K	5%	1/4W F
R114	1-249-427-11	CARBON	6.8K	5%	1/4W F
R115	1-249-427-11	CARBON	6.8K	5%	1/4W F
R116	1-249-417-11	CARBON	1K	5%	1/4W F (AEP,UK)
R117	1-249-437-11	CARBON	47K	5%	1/4W
R118	1-249-429-11	CARBON	10K	5%	1/4W
R119	1-249-425-11	CARBON	4.7K	5%	1/4W F
R120	1-249-429-11	CARBON	10K	5%	1/4W
R121	1-247-899-11	CARBON	680K	5%	1/4W
R123	1-249-433-11	CARBON	22K	5%	1/4W
R124	1-249-433-11	CARBON	22K	5%	1/4W
R125	1-247-807-31	CARBON	100	5%	1/4W
R126	1-247-807-31	CARBON	100	5%	1/4W
R127	1-249-429-11	CARBON	10K	5%	1/4W
R128	1-247-807-31	CARBON	100	5%	1/4W
R129	1-247-807-31	CARBON	100	5%	1/4W
R130	1-247-807-31	CARBON	100	5%	1/4W
R131	1-247-807-31	CARBON	100	5%	1/4W
R132	1-247-807-31	CARBON	100	5%	1/4W
R133	1-247-807-31	CARBON	100	5%	1/4W
R134	1-247-807-31	CARBON	100	5%	1/4W
R135	1-247-807-31	CARBON	100	5%	1/4W
R136	1-247-807-31	CARBON	100	5%	1/4W
R137	1-247-807-31	CARBON	100	5%	1/4W
R138	1-249-421-11	CARBON	2.2K	5%	1/4W F
R139	1-247-807-31	CARBON	100	5%	1/4W
R140	1-247-807-31	CARBON	100	5%	1/4W
R141	1-247-807-31	CARBON	100	5%	1/4W
R142	1-247-807-31	CARBON	100	5%	1/4W
R143	1-247-807-31	CARBON	100	5%	1/4W
R144	1-249-429-11	CARBON	10K	5%	1/4W
R145	1-247-807-31	CARBON	100	5%	1/4W
R146	1-247-807-31	CARBON	100	5%	1/4W
R147	1-247-807-31	CARBON	100	5%	1/4W
R148	1-247-807-31	CARBON	100	5%	1/4W
R149	1-247-807-31	CARBON	100	5%	1/4W
R150	1-247-807-31	CARBON	100	5%	1/4W
R151	1-247-807-31	CARBON	100	5%	1/4W
R152	1-247-807-31	CARBON	100	5%	1/4W
R153	1-247-807-31	CARBON	100	5%	1/4W
R154	1-249-429-11	CARBON	10K	5%	1/4W
R161	1-249-441-11	CARBON	100K	5%	1/4W
R162	1-249-441-11	CARBON	100K	5%	1/4W
R163	1-249-429-11	CARBON	10K	5%	1/4W
R164	1-249-429-11	CARBON	10K	5%	1/4W
R165	1-249-440-11	CARBON	82K	5%	1/4W
R187	1-249-429-11	CARBON	10K	5%	1/4W
R188	1-249-429-11	CARBON	10K	5%	1/4W (US,CND,AEP,UK,CH)
⚠R198	1-249-377-11	CARBON	0.47	5%	1/4W (US,CND)
⚠R199	1-249-377-11	CARBON	0.47	5%	1/4W (US,CND)
		< VARIABLE RESISTOR >			
RV102	1-418-773-11	ENCODER, ROTARY (MASTER VOLUME)			
		< SWITCH >			
S100	1-762-875-21	SWITCH, TACTILE (TREBLE-)(EXCEPT CND)			
S101	1-762-875-21	SWITCH, TACTILE (TREBLE+)			
S102	1-762-875-21	SWITCH, TACTILE (BASS+)			
S103	1-762-875-21	SWITCH, TACTILE (BASS-)			
S104	1-762-875-21	SWITCH, TACTILE (2CH)			
S105	1-762-875-21	SWITCH, TACTILE (A.F.D.)			
S106	1-762-875-21	SWITCH, TACTILE (MENU-)			
S107	1-762-875-21	SWITCH, TACTILE (MENU+)			
S110	1-762-875-21	SWITCH, TACTILE (MENU>)			
S111	1-762-875-21	SWITCH, TACTILE (MENU<)			
S112	1-762-875-21	SWITCH, TACTILE (EXEPT AEP,UK:AM)(AEP,UK:FM/AM)			
S113	1-762-875-21	SWITCH, TACTILE (EXEPT AEP,UK:FM)(AEP,UK:FM MODE)			
S114	1-762-875-21	SWITCH, TACTILE (EXEPT AEP,UK:FM MODE)(AEP,UK:PTY)			
S115	1-762-875-21	SWITCH, TACTILE (SHIFT)			
S116	1-762-875-21	SWITCH, TACTILE (PRESET TUNING+)			
S117	1-762-875-21	SWITCH, TACTILE (PRESET TUNING-)			
S118	1-762-875-21	SWITCH, TACTILE (MEMORY)			
S120	1-762-875-21	SWITCH, TACTILE (EXEPT AEP,UK:TUNING-)(AEP,UK:PTY SELECT-)			
S121	1-762-875-21	SWITCH, TACTILE (EXEPT AEP,UK:TUNING+)(AEP,UK:PTY SELECT+)			
S122	1-762-875-21	SWITCH, TACTILE (SETUP)			
S123	1-762-875-21	SWITCH, TACTILE (NAME)			
S124	1-762-875-21	SWITCH, TACTILE (ENTER)			
S125	1-762-875-21	SWITCH, TACTILE (LEVEL)			
S126	1-762-875-21	SWITCH, TACTILE (SUR)			
S127	1-762-875-21	SWITCH, TACTILE (DVD/LD)			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.	以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

Ref. No.	Part No.	Description			Remarks
S128	1-762-875-21	SWITCH, TACTILE (VIDEO)			
S129	1-762-875-21	SWITCH, TACTILE (MD/TAPE)			
S130	1-762-875-21	SWITCH, TACTILE (MODE)			
S131	1-762-875-21	SWITCH, TACTILE (MUTING)			
S132	1-762-875-21	SWITCH, TACTILE (MULTI CH IN)			
S133	1-762-875-21	SWITCH, TACTILE (INPUT MODE)			
S134	1-762-875-21	SWITCH, TACTILE (TV/SAT)			
S135	1-762-875-21	SWITCH, TACTILE (CD)			
S136	1-762-875-21	SWITCH, TACTILE (TUNER)			
		< VIBRATOR >			
X101	1-781-356-21	VIBRATOR, CERAMIC 16MHz			
**********					
	1-681-429-11	HP BOARD			
		*********			
		< CAPACITOR >			
C790	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CNP791	1-564-505-11	PLUG, CONNECTOR 2P			
CNP792	1-691-765-11	PLUG (MICRO CONNECTOR) 3P			
		< DIODE >			
D790	8-719-084-16	DIODE RD5.6F-T8B2			
		< JACK >			
J791	1-815-314-21	JACK (PHONES)(EXCEPT CH)			
J791	1-815-313-21	JACK (PHONES)(CH:BLACK)(CH)			
**********					
	A-2007-941-A	MAIN BOARD, COMPLETE (US)			
		**********			
	A-2007-949-A	MAIN BOARD, COMPLETE (CND)			
		**********			
	A-2007-951-A	MAIN BOARD, COMPLETE (AEP,UK)			
		**********			
	A-2007-954-A	MAIN BOARD, COMPLETE (AUS,CH,MX,AR)			
		**********			
	A-4725-730-A	MAIN BOARD, COMPLETE (E)			
		**********			
	7-685-645-79	SCREW +BVTP	3X6	TYPE2 N-S	
		< CAPACITOR >			
C303	1-128-817-11	CERAMIC	470PF	5%	50V (AEP,UK)
C304	1-126-795-11	ELECT	10uF	20.00%	50V (AEP,UK)
C305	1-164-159-11	CERAMIC	0.1uF		50V (AEP,UK)
C306	1-128-821-31	CERAMIC	1000PF	5%	50V (AEP,UK)
C307	1-128-805-11	CERAMIC	47PF	5%	50V (AEP,UK)
C308	1-128-805-11	CERAMIC	47PF	5%	50V (AEP,UK)
C309	1-126-795-11	ELECT	10uF	20.00%	50V (AEP,UK)
C310	1-164-159-11	CERAMIC	0.1uF		50V (AEP,UK)
C320	1-164-159-11	CERAMIC	0.1uF		50V
C321	1-164-159-11	CERAMIC	0.1uF		50V
C322	1-164-159-11	CERAMIC	0.1uF		50V
C323	1-128-813-11	CERAMIC	220PF	5%	50V
C324	1-128-813-11	CERAMIC	220PF	5%	50V
C371	1-128-809-11	CERAMIC	100PF	5%	50V
C372	1-128-809-11	CERAMIC	100PF	5%	50V
C373	1-128-809-11	CERAMIC	100PF	5%	50V
C374	1-128-809-11	CERAMIC	100PF	5%	50V
C375	1-128-809-11	CERAMIC	100PF	5%	50V
C376	1-128-809-11	CERAMIC	100PF	5%	50V
C402	1-126-795-11	ELECT	10uF	20.00%	50V
C404	1-126-795-11	ELECT	10uF	20.00%	50V
C405	1-126-795-11	ELECT	10uF	20.00%	50V
C406	1-126-795-11	ELECT	10uF	20.00%	50V
C408	1-126-795-11	ELECT	10uF	20.00%	50V
C409	1-126-795-11	ELECT	10uF	20.00%	50V
C410	1-126-795-11	ELECT	10uF	20.00%	50V
C411	1-164-159-11	CERAMIC	0.1uF		50V
C412	1-130-481-00	MYLAR	0.0068uF	5%	50V
C413	1-136-495-11	FILM	0.068uF	5.00%	50V
C414	1-130-481-00	MYLAR	0.0068uF	5%	50V
C416	1-136-165-00	FILM	0.1uF	5.00%	50V
C417	1-136-165-00	FILM	0.1uF	5.00%	50V
C418	1-126-795-11	ELECT	10uF	20.00%	50V
C419	1-126-963-11	ELECT	4.7uF	20.00%	50V
C420	1-126-795-11	ELECT	10uF	20.00%	50V
C421	1-126-795-11	ELECT	10uF	20.00%	50V
C425	1-126-795-11	ELECT	10uF	20.00%	50V
C428	1-126-963-11	ELECT	4.7uF	20.00%	50V
C429	1-164-159-11	CERAMIC	0.1uF		50V
C430	1-164-159-11	CERAMIC	0.1uF		50V (US,CND)
C431	1-128-809-11	CERAMIC	100PF	5%	50V
C432	1-128-809-11	CERAMIC	100PF	5%	50V
C433	1-128-809-11	CERAMIC	100PF	5%	50V
C434	1-126-965-11	ELECT	22uF	20.00%	50V
C441	1-164-159-11	CERAMIC	0.1uF		50V
C442	1-164-159-11	CERAMIC	0.1uF		50V
C452	1-126-795-11	ELECT	10uF	20.00%	50V
C454	1-126-795-11	ELECT	10uF	20.00%	50V
C455	1-126-795-11	ELECT	10uF	20.00%	50V
C456	1-126-795-11	ELECT	10uF	20.00%	50V
C457	1-126-795-11	ELECT	10uF	20.00%	50V
C458	1-126-795-11	ELECT	10uF	20.00%	50V
C459	1-126-795-11	ELECT	10uF	20.00%	50V
C460	1-126-795-11	ELECT	10uF	20.00%	50V
C461	1-126-963-11	ELECT	4.7uF	20.00%	50V

MAIN

Ref. No.	Part No.	Description			Remarks
C462	1-130-481-00	MYLAR	0.0068uF	5%	50V
C463	1-136-495-11	FILM	0.068uF	5.00%	50V
C464	1-130-481-00	MYLAR	0.0068uF	5%	50V
C465	1-126-795-11	ELECT	10uF	20.00%	50V
C466	1-136-165-00	FILM	0.1uF	5.00%	50V
C467	1-136-165-00	FILM	0.1uF	5.00%	50V
C468	1-126-795-11	ELECT	10uF	20.00%	50V
C469	1-126-795-11	ELECT	10uF	20.00%	50V
C470	1-126-795-11	ELECT	10uF	20.00%	50V
C471	1-126-963-11	ELECT	4.7uF	20.00%	50V
C472	1-126-963-11	ELECT	4.7uF	20.00%	50V
C473	1-126-963-11	ELECT	4.7uF	20.00%	50V
C474	1-126-963-11	ELECT	4.7uF	20.00%	50V
C475	1-126-963-11	ELECT	4.7uF	20.00%	50V
C476	1-126-963-11	ELECT	4.7uF	20.00%	50V
C477	1-126-963-11	ELECT	4.7uF	20.00%	50V
C484	1-126-965-11	ELECT	22uF	20.00%	50V
C491	1-128-803-11	CERAMIC	33PF	5%	50V
C492	1-128-803-11	CERAMIC	33PF	5%	50V
C493	1-128-803-11	CERAMIC	33PF	5%	50V
C494	1-128-803-11	CERAMIC	33PF	5%	50V
C495	1-128-803-11	CERAMIC	33PF	5%	50V
C496	1-128-803-11	CERAMIC	33PF	5%	50V
C497	1-128-803-11	CERAMIC	33PF	5%	50V
C498	1-128-803-11	CERAMIC	33PF	5%	50V
C499	1-126-795-11	ELECT	10uF	20.00%	50V
C501	1-126-963-11	ELECT	4.7uF	20.00%	50V
C502	1-128-809-11	CERAMIC	100PF	5%	50V
C503	1-102-989-00	CERAMIC	68PF	5.00%	500V
C504	1-102-989-00	CERAMIC	68PF	5.00%	500V
C505	1-104-665-11	ELECT	100uF	20.00%	10V
C506	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C510	1-104-664-11	ELECT	47uF	20.00%	25V
C511	1-136-157-00	FILM	0.022uF	5.00%	50V
C520	1-128-813-11	CERAMIC	220PF	5%	50V
C524	1-126-160-11	ELECT	1uF	20%	50V
C526	1-127-876-31	CERAMIC	0.01uF	10%	50V
C601	1-126-963-11	ELECT	4.7uF	20.00%	50V
C603	1-104-665-11	ELECT	100uF	20.00%	10V
C604	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C605	1-102-233-00	CERAMIC	33PF	10.00%	500V
C606	1-128-809-11	CERAMIC	100PF	5%	50V
C607	1-128-809-11	CERAMIC	100PF	5%	50V
C610	1-104-664-11	ELECT	47uF	20.00%	16V
C611	1-136-157-00	FILM	0.022uF	5.00%	50V
C620	1-128-813-11	CERAMIC	220PF	5%	50V
C624	1-126-160-11	ELECT	1uF	20%	50V
C626	1-127-876-31	CERAMIC	0.01uF	10%	50V
C651	1-126-963-11	ELECT	4.7uF	20.00%	50V
C653	1-104-665-11	ELECT	100uF	20.00%	10V
C654	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C655	1-102-233-00	CERAMIC	33PF	10.00%	500V
C656	1-128-809-11	CERAMIC	100PF	5%	50V
C657	1-128-809-11	CERAMIC	100PF	5%	50V
C660	1-104-664-11	ELECT	47uF	20.00%	16V

Ref. No.	Part No.	Description			Remarks
C661	1-136-157-00	FILM	0.022uF	5.00%	50V
C670	1-128-813-11	CERAMIC	220PF	5%	50V
C701	1-126-963-11	ELECT	4.7uF	20.00%	50V
C703	1-104-665-11	ELECT	100uF	20.00%	10V
C704	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C705	1-102-233-00	CERAMIC	33PF	10.00%	500V
C706	1-128-809-11	CERAMIC	100PF	5%	50V
C707	1-128-809-11	CERAMIC	100PF	5%	50V
C710	1-104-664-11	ELECT	47uF	20.00%	16V
C711	1-136-157-00	FILM	0.022uF	5.00%	50V
C720	1-128-813-11	CERAMIC	220PF	5%	50V
C721	1-126-934-11	ELECT	220uF	20.00%	10V
C722	1-126-795-11	ELECT	10uF	20.00%	50V
C724	1-126-160-11	ELECT	1uF	20%	50V
C726	1-127-876-31	CERAMIC	0.01uF	10%	50V
C734	1-126-160-11	ELECT	1uF	20%	50V
C736	1-127-876-31	CERAMIC	0.01uF	10%	50V
C740	1-128-582-11	ELECT	10uF	20.00%	100V
C741	1-128-582-11	ELECT	10uF	20.00%	100V
C751	1-126-963-11	ELECT	4.7uF	20.00%	50V
C753	1-104-665-11	ELECT	100uF	20.00%	10V
C754	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C755	1-102-233-00	CERAMIC	33PF	10.00%	500V
C756	1-128-809-11	CERAMIC	100PF	5%	50V
C757	1-128-809-11	CERAMIC	100PF	5%	50V
C760	1-104-664-11	ELECT	47uF	20.00%	16V
C761	1-136-157-00	FILM	0.022uF	5.00%	50V
C770	1-128-813-11	CERAMIC	220PF	5%	50V
C801	1-126-947-11	ELECT	47uF	20.00%	35V
C802	1-126-947-11	ELECT	47uF	20.00%	35V
C803	1-128-493-11	ELECT	4700uF	20.00%	63V
C804	1-128-493-11	ELECT	4700uF	20.00%	63V
C805	1-130-781-00	MYLAR	0.22uF	5.00%	100V
C806	1-130-781-00	MYLAR	0.22uF	5.00%	100V
C807	1-104-665-11	ELECT	100uF	20.00%	10V
C808	1-104-665-11	ELECT	100uF	20.00%	10V
C810	1-136-165-00	FILM	0.1uF	5.00%	50V
C811	1-126-943-11	ELECT	2200uF	20.00%	25V
C812	1-126-941-11	ELECT	470uF	20.00%	25V
⚠C813	1-164-159-11	CERAMIC	0.1uF		50V
⚠C814	1-164-159-11	CERAMIC	0.1uF		50V
C815	1-126-960-11	ELECT	1uF	20.00%	50V
C816	1-104-664-11	ELECT	47uF	20.00%	25V
C817	1-126-936-11	ELECT	3300uF	20.00%	16V
C818	1-104-664-11	ELECT	47uF	20.00%	25V
C825	1-136-165-00	FILM	0.1uF	5.00%	50V
C826	1-104-664-11	ELECT	47uF	20.00%	25V
C827	1-104-664-11	ELECT	47uF	20.00%	25V
C896	1-104-664-11	ELECT	47uF	20.00%	16V
C897	1-136-165-00	FILM	0.1uF	5.00%	50V
C898	1-126-949-11	ELECT	220uF	20.00%	35V
C899	1-126-948-11	ELECT	100uF	20.00%	35V
C922	1-164-159-11	CERAMIC	0.1uF		50V
C923	1-164-159-11	CERAMIC	0.1uF		50V
CC02	1-128-809-11	CERAMIC	100PF	5%	50V (UK,AEP,AUS,CH)

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Ref. No.	Part No.	Description			Remarks
CC03	1-128-809-11	CERAMIC	100PF	5% 50V (UK,AEP,AUS,CH)	
CC04	1-128-809-11	CERAMIC	100PF	5% 50V (UK,AEP,AUS,CH)	
CC05	1-128-809-11	CERAMIC	100PF	5% 50V (UK,AEP,AUS,CH)	
CC06	1-128-809-11	CERAMIC	100PF	5% 50V (UK,AEP,AUS,CH)	
CC07	1-128-809-11	CERAMIC	100PF	5% 50V (UK,AEP,AUS,CH)	
CC08	1-128-809-11	CERAMIC	100PF	5% 50V (UK,AEP,AUS,CH)	
CC09	1-128-809-11	CERAMIC	100PF	5% 50V (UK,AEP,AUS,CH)	
CC10	1-128-809-11	CERAMIC	100PF	5% 50V (UK,AEP,AUS,CH)	
CC11	1-128-809-11	CERAMIC	100PF	5% 50V (UK,AEP,AUS,CH)	
CC12	1-127-876-31	CERAMIC	0.01uF	10% 50V (UK,AEP,AUS,CH)	
CC14	1-127-876-31	CERAMIC	0.01uF	10% 50V (UK,AEP,AUS,CH)	
CC16	1-127-876-31	CERAMIC	0.01uF	10% 50V (UK,AEP,AUS,CH)	
CC18	1-127-876-31	CERAMIC	0.01uF	10% 50V (UK,AEP,AUS,CH)	
CC20	1-127-876-31	CERAMIC	0.01uF	10% 50V (UK,AEP,AUS,CH)	
CC51	1-128-809-11	CERAMIC	100PF	5% 50V (UK,AEP,AUS,CH)	
CC52	1-128-809-11	CERAMIC	100PF	5% 50V (UK,AEP,AUS,CH)	
CC53	1-128-809-11	CERAMIC	100PF	5% 50V (UK,AEP,AUS,CH)	
CC54	1-128-809-11	CERAMIC	100PF	5% 50V (UK,AEP,AUS,CH)	
CC55	1-128-809-11	CERAMIC	100PF	5% 50V (UK,AEP,AUS,CH)	
CC56	1-128-809-11	CERAMIC	100PF	5% 50V (UK,AEP,AUS,CH)	
CC57	1-128-809-11	CERAMIC	100PF	5% 50V (UK,AEP,AUS,CH)	
CC58	1-128-809-11	CERAMIC	100PF	5% 50V (UK,AEP,AUS,CH)	
CC59	1-128-809-11	CERAMIC	100PF	5% 50V (UK,AEP,AUS,CH)	
CC60	1-128-809-11	CERAMIC	100PF	5% 50V (UK,AEP,AUS,CH)	
CC61	1-128-809-11	CERAMIC	100PF	5% 50V (UK,AEP,AUS,CH)	
		< CONNECTOR >			
CNP301	1-794-002-11	CONNECTOR 13P (UK,AEP,AUS,CH)			
* CNP791	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P			
* CNP801	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P			
CNP802	1-691-770-11	PLUG (MICRO CONNECTOR) 8P			
CNS401	1-569-321-11	SOCKET, CONNECTOR 15P			

Ref. No.	Part No.	Description	Remarks
		< DIODE >	
D505	8-719-991-33	DIODE 1SS133T-77	
D506	8-719-991-33	DIODE 1SS133T-77	
D508	8-719-991-33	DIODE 1SS133T-77	
D510	8-719-991-33	DIODE 1SS133T-77	
D560	8-719-991-33	DIODE 1SS133T-77	
D605	8-719-991-33	DIODE 1SS133T-77	
D606	8-719-991-33	DIODE 1SS133T-77	
D607	8-719-991-33	DIODE 1SS133T-77	
D610	8-719-991-33	DIODE 1SS133T-77	
D617	8-719-991-33	DIODE 1SS133T-77	
D627	8-719-991-33	DIODE 1SS133T-77	
D706	8-719-991-33	DIODE 1SS133T-77	
D710	8-719-991-33	DIODE 1SS133T-77	
D721	8-719-991-33	DIODE 1SS133T-77	
D722	8-719-991-33	DIODE 1SS133T-77	
D725	8-719-991-33	DIODE 1SS133T-77	
D726	8-719-991-33	DIODE 1SS133T-77	
D727	8-719-991-33	DIODE 1SS133T-77	
D728	8-719-991-33	DIODE 1SS133T-77	
D731	8-719-991-33	DIODE 1SS133T-77	
D732	8-719-991-33	DIODE 1SS133T-77	
D734	8-719-991-33	DIODE 1SS133T-77	
D735	8-719-991-33	DIODE 1SS133T-77	
D757	8-719-991-33	DIODE 1SS133T-77	
D791	8-719-991-33	DIODE 1SS133T-77	
D801	8-719-934-21	DIODE HZS30-1LTA	
⚠ D802	8-719-072-05	DIODE RBV-602LF-A	
D804	8-719-084-16	DIODE RD5.6F-T8B2 (EXCEPT E)	
D804	8-719-118-63	DIODE RD5.6F-T7B2 (E)	
D820	8-719-200-82	DIODE 11ES2-NTA1B	
D821	8-719-200-82	DIODE 11ES2-NTA1B	
D822	8-719-200-82	DIODE 11ES2-NTA1B	
D823	8-719-200-82	DIODE 11ES2-NTA1B	
D824	8-719-200-82	DIODE 11ES2-NTA1B	
D825	8-719-200-82	DIODE 11ES2-NTA1B	
D826	8-719-200-82	DIODE 11ES2-NTA1B	
D827	8-719-200-82	DIODE 11ES2-NTA1B	
D833	8-719-043-76	DIODE AK04V0	
D896	8-719-043-76	DIODE AK04V0	
⚠ D898	8-719-200-82	DIODE 11ES2-NTA1B	
D899	8-719-200-82	DIODE 11ES2-NTA1B	
		< EARTH >	
* G401	1-537-738-21	TERMINAL, EARTH	
* G801	1-537-738-21	TERMINAL, EARTH	
		< IC >	
IC201	8-759-655-38	IC M61501FP	
IC301	8-759-557-36	IC BU1924F-E2 (AEP,UK)	
IC401	8-759-636-74	IC M5218AP-22	
IC402	8-759-636-74	IC M5218AP-22	
IC403	8-759-636-74	IC M5218AP-22	

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MAIN

Ref. No.	Part No.	Description	Remarks
IC404	8-759-636-74	IC M5218AP-22	
IC501	8-749-011-16	IC STK350-230	
IC701	8-759-326-52	IC uPC2581V	
IC702	8-759-326-52	IC uPC2581V	
IC801	8-759-605-00	IC M5F78M07L	
IC802	8-759-604-95	IC M5F79M07L	
IC803	8-759-039-69	IC uPC7805AHF	
IC804	8-759-039-69	IC uPC7805AHF	
IC806	8-759-376-91	IC uPC78M12AHF	
IC807	8-759-708-05	IC NJM78L05A-T3	
		< JACK >	
J253	1-774-843-11	JACK, PIN 1P (AUDIO OUT(SUB WOOFER)	
J401	1-770-614-11	JACK, PIN 4P (CD IN,MD/TAPE OUT)	
J402	1-770-613-11	JACK, PIN 4P (MD/TAPE IN,AUDIO IN(TV/SAT))	
J403	1-580-825-11	JACK, PIN 6P (AUDIO IN(DVD/LD), AUDIO OUT(VIDEO),AUDIO IN(VIDEO))	
J501	1-779-380-11	JACK, PIN 6P (MULTI CH IN)	
		< COIL >	
L301	1-408-080-00	INDUCTOR 100uH (AEP,UK)	
L521	1-420-872-00	COIL, AIR-CORE	
L601	1-420-872-00	COIL, AIR-CORE	
L651	1-420-872-00	COIL, AIR-CORE	
L701	1-420-872-00	COIL, AIR-CORE	
L751	1-420-872-00	COIL, AIR-CORE	
		< TRANSISTOR >	
Q361	8-729-823-22	TRANSISTOR 2SC3576-AC	
Q362	8-729-823-22	TRANSISTOR 2SC3576-AC	
Q363	8-729-823-22	TRANSISTOR 2SC3576-AC	
Q364	8-729-823-22	TRANSISTOR 2SC3576-AC	
Q365	8-729-823-22	TRANSISTOR 2SC3576-AC	
Q366	8-729-823-22	TRANSISTOR 2SC3576-AC	
Q379	8-729-900-63	TRANSISTOR BN1F4M-TP	
Q501	8-729-119-76	TRANSISTOR 2SA1115TP-EF	
Q502	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
Q503	8-749-010-25	TRANSISTOR MN2488-OPY-M	
Q504	8-749-010-26	TRANSISTOR MP1620-OPY-M	
Q505	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q506	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q507	8-729-900-63	TRANSISTOR BN1F4M-TP	
Q509	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2	
Q550	8-729-119-79	TRANSISTOR 2SC2785TP-FEK	
Q560	8-729-119-79	TRANSISTOR 2SC2785TP-FEK	
Q601	8-729-119-76	TRANSISTOR 2SA1115TP-EF	
Q602	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
Q603	8-749-010-25	TRANSISTOR MN2488-OPY-M	
Q604	8-749-010-26	TRANSISTOR MP1620-OPY-M	
Q605	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q606	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q610	8-729-119-79	TRANSISTOR 2SC2785TP-FEK	
Q651	8-729-119-76	TRANSISTOR 2SA1115TP-EF	
Q652	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
Q653	8-749-010-25	TRANSISTOR MN2488-OPY-M	
Q654	8-749-010-26	TRANSISTOR MP1620-OPY-M	
Q655	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q656	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	

Ref. No.	Part No.	Description	Remarks
Q657	8-729-900-63	TRANSISTOR BN1F4M-TP	
Q658	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2	
Q659	8-729-900-63	TRANSISTOR BN1F4M-TP	
Q691	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2	
Q692	8-729-900-36	TRANSISTOR BA1F4M-TP (E)	
Q693	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2 (E)	
Q694	8-729-900-36	TRANSISTOR BA1F4M-TP (E)	
Q695	8-729-201-53	TRANSISTOR 2SA1015TP-YGR (E)	
Q696	8-729-900-63	TRANSISTOR BN1F4M-TP (E)	
Q697	8-729-900-36	TRANSISTOR BA1F4M-TP (E)	
Q701	8-729-119-76	TRANSISTOR 2SA1115TP-EF	
Q702	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
Q703	8-749-010-25	TRANSISTOR MN2488-OPY-M	
Q704	8-749-010-26	TRANSISTOR MP1620-OPY-M	
Q705	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q706	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q707	8-729-900-63	TRANSISTOR BN1F4M-TP	
Q708	8-729-900-63	TRANSISTOR BN1F4M-TP	
Q709	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2	
Q722	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
Q723	8-729-119-79	TRANSISTOR 2SC2785TP-FEK	
Q725	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q730	8-729-119-79	TRANSISTOR 2SC2785TP-FEK	
Q747	8-729-900-63	TRANSISTOR BN1F4M-TP	
Q748	8-729-900-36	TRANSISTOR BA1F4M-TP	
Q751	8-729-119-76	TRANSISTOR 2SA1115TP-EF	
Q752	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
Q753	8-749-010-25	TRANSISTOR MN2488-OPY-M	
Q754	8-749-010-26	TRANSISTOR MP1620-OPY-M	
Q755	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q756	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q757	8-729-900-63	TRANSISTOR BN1F4M-TP	
Q758	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2	
Q759	8-729-900-63	TRANSISTOR BN1F4M-TP	
Q791	8-729-119-79	TRANSISTOR 2SC2785TP-FEK	
Q801	8-729-140-97	TRANSISTOR 2SB734-T-34	
		< RESISTOR >	
R305	1-249-421-11	CARBON 2.2K 5% 1/4W F (AEP,UK)	
R306	1-247-807-31	CARBON 100 5% 1/4W (AEP,UK)	
R307	1-247-807-31	CARBON 100 5% 1/4W (AEP,UK)	
R326	1-249-436-11	CARBON 39K 5% 1/4W	
R327	1-249-436-11	CARBON 39K 5% 1/4W	
R328	1-249-433-11	CARBON 22K 5% 1/4W	
R360	1-249-437-11	CARBON 47K 5% 1/4W	
R361	1-249-429-11	CARBON 10K 5% 1/4W	
R362	1-249-429-11	CARBON 10K 5% 1/4W	
R363	1-249-437-11	CARBON 47K 5% 1/4W	
R366	1-249-429-11	CARBON 10K 5% 1/4W	
R367	1-249-437-11	CARBON 47K 5% 1/4W	
R368	1-249-437-11	CARBON 47K 5% 1/4W	
R369	1-249-429-11	CARBON 10K 5% 1/4W	
R370	1-249-429-11	CARBON 10K 5% 1/4W	

Ref. No.	Part No.	Description			Remarks
R371	1-249-437-11	CARBON	47K	5%	1/4W
R372	1-249-437-11	CARBON	47K	5%	1/4W
R373	1-247-807-31	CARBON	100	5%	1/4W
R374	1-247-807-31	CARBON	100	5%	1/4W
R375	1-247-807-31	CARBON	100	5%	1/4W
R376	1-247-807-31	CARBON	100	5%	1/4W
R377	1-247-807-31	CARBON	100	5%	1/4W
R378	1-247-807-31	CARBON	100	5%	1/4W
R379	1-249-429-11	CARBON	10K	5%	1/4W
R380	1-249-441-11	CARBON	100K	5%	1/4W
R381	1-249-429-11	CARBON	10K	5%	1/4W
R402	1-249-417-11	CARBON	1K	5%	1/4W F
R403	1-249-417-11	CARBON	1K	5%	1/4W F
R404	1-249-417-11	CARBON	1K	5%	1/4W F
R405	1-249-417-11	CARBON	1K	5%	1/4W F
R406	1-249-417-11	CARBON	1K	5%	1/4W F
R407	1-249-417-11	CARBON	1K	5%	1/4W F
R408	1-249-417-11	CARBON	1K	5%	1/4W F
R409	1-249-417-11	CARBON	1K	5%	1/4W F
R410	1-249-417-11	CARBON	1K	5%	1/4W F
R411	1-249-417-11	CARBON	1K	5%	1/4W F
R412	1-249-437-11	CARBON	47K	5%	1/4W
R413	1-249-437-11	CARBON	47K	5%	1/4W
R416	1-249-429-11	CARBON	10K	5%	1/4W
R422	1-249-437-11	CARBON	47K	5%	1/4W
R424	1-249-437-11	CARBON	47K	5%	1/4W
R425	1-249-437-11	CARBON	47K	5%	1/4W
R426	1-249-437-11	CARBON	47K	5%	1/4W
R428	1-249-437-11	CARBON	47K	5%	1/4W
R431	1-249-437-11	CARBON	47K	5%	1/4W
R432	1-249-437-11	CARBON	47K	5%	1/4W
R433	1-249-437-11	CARBON	47K	5%	1/4W
R434	1-249-437-11	CARBON	47K	5%	1/4W
R442	1-249-437-11	CARBON	47K	5%	1/4W
R444	1-249-437-11	CARBON	47K	5%	1/4W
R445	1-249-437-11	CARBON	47K	5%	1/4W
R446	1-249-437-11	CARBON	47K	5%	1/4W
R447	1-249-437-11	CARBON	47K	5%	1/4W
R448	1-249-437-11	CARBON	47K	5%	1/4W
R452	1-249-417-11	CARBON	1K	5%	1/4W F
R453	1-249-417-11	CARBON	1K	5%	1/4W F
R454	1-249-417-11	CARBON	1K	5%	1/4W F
R455	1-249-417-11	CARBON	1K	5%	1/4W F
R456	1-249-417-11	CARBON	1K	5%	1/4W F
R457	1-249-417-11	CARBON	1K	5%	1/4W F
R458	1-249-417-11	CARBON	1K	5%	1/4W F
R459	1-249-417-11	CARBON	1K	5%	1/4W F
R460	1-249-417-11	CARBON	1K	5%	1/4W F
R461	1-249-417-11	CARBON	1K	5%	1/4W F
R463	1-249-437-11	CARBON	47K	5%	1/4W
R464	1-249-437-11	CARBON	47K	5%	1/4W
R465	1-249-437-11	CARBON	47K	5%	1/4W
R466	1-249-429-11	CARBON	10K	5%	1/4W
R467	1-249-437-11	CARBON	47K	5%	1/4W
R468	1-249-437-11	CARBON	47K	5%	1/4W
R469	1-249-417-11	CARBON	1K	5%	1/4W F
R470	1-249-437-11	CARBON	47K	5%	1/4W
R471	1-249-431-11	CARBON	15K	5%	1/4W
R472	1-249-429-11	CARBON	10K	5%	1/4W
R473	1-249-421-11	CARBON	2.2K	5%	1/4W F
R474	1-249-429-11	CARBON	10K	5%	1/4W
R475	1-249-429-11	CARBON	10K	5%	1/4W
R476	1-249-429-11	CARBON	10K	5%	1/4W
R477	1-249-429-11	CARBON	10K	5%	1/4W
R478	1-249-429-11	CARBON	10K	5%	1/4W
R479	1-249-429-11	CARBON	10K	5%	1/4W
R480	1-247-843-11	CARBON	3.3K	5%	1/4W
R481	1-249-429-11	CARBON	10K	5%	1/4W
R482	1-247-843-11	CARBON	3.3K	5%	1/4W
R483	1-249-429-11	CARBON	10K	5%	1/4W
R484	1-247-843-11	CARBON	3.3K	5%	1/4W
R485	1-249-429-11	CARBON	10K	5%	1/4W
R486	1-247-843-11	CARBON	3.3K	5%	1/4W
R487	1-249-437-11	CARBON	47K	5%	1/4W
R488	1-249-437-11	CARBON	47K	5%	1/4W
R489	1-249-437-11	CARBON	47K	5%	1/4W
R490	1-249-437-11	CARBON	47K	5%	1/4W
R491	1-249-437-11	CARBON	47K	5%	1/4W
R492	1-249-437-11	CARBON	47K	5%	1/4W
R499	1-249-437-11	CARBON	47K	5%	1/4W
R501	1-249-417-11	CARBON	1K	5%	1/4W F
R502	1-249-439-11	CARBON	68K	5%	1/4W
R503	1-249-414-11	CARBON	560	5%	1/4W F
R504	1-249-411-11	CARBON	330	5%	1/4W (EXCEPT AEP,UK)
R504	1-249-410-11	CARBON	270	5%	1/4W F (AEP,UK)
R505	1-249-439-11	CARBON	68K	5%	1/4W
R507	1-249-433-11	CARBON	22K	5%	1/4W
R510	1-249-421-11	CARBON	2.2K	5%	1/4W F
R511	1-249-437-11	CARBON	47K	5%	1/4W
R513	1-249-414-11	CARBON	560	5%	1/4W F
⚠R514	1-249-408-11	CARBON	180	5%	1/4W F
⚠R515	1-249-408-11	CARBON	180	5%	1/4W F
⚠R516	1-234-182-11	ENCAPSULATED COMPONENT			
⚠R517	1-249-393-11	CARBON	10	5%	1/4W F
R520	1-249-425-11	CARBON	4.7K	5%	1/4W F
R521	1-247-850-11	CARBON	6.2K	5%	1/4W
R522	1-249-419-11	CARBON	1.5K	5%	1/4W F
⚠R528	1-249-386-11	CARBON	2.7	5%	1/6W F
R529	1-247-866-11	CARBON	30K	5%	1/4W
R530	1-249-425-11	CARBON	4.7K	5%	1/4W F
R531	1-249-425-11	CARBON	4.7K	5%	1/4W F
R532	1-249-425-11	CARBON	4.7K	5%	1/4W F
R533	1-249-437-11	CARBON	47K	5%	1/4W
R535	1-249-431-11	CARBON	15K	5%	1/4W
R539	1-249-422-11	CARBON	2.7K	5%	1/4W F (US,CND)

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MAIN

Ref. No.	Part No.	Description			Remarks
R539	1-249-424-11	CARBON	3.9K	5%	1/4W F (EXCEPT US,CND)
R540	1-247-881-00	CARBON	120K	5%	1/4W
R541	1-249-431-11	CARBON	15K	5%	1/4W
R573	1-249-437-11	CARBON	47K	5%	1/4W
R601	1-249-417-11	CARBON	1K	5%	1/4W F
R602	1-249-439-11	CARBON	68K	5%	1/4W
R603	1-249-414-11	CARBON	560	5%	1/4W F
R604	1-249-439-11	CARBON	68K	5%	1/4W
R610	1-249-421-11	CARBON	2.2K	5%	1/4W F
R611	1-249-440-11	CARBON	82K	5%	1/4W
R613	1-249-414-11	CARBON	560	5%	1/4W F
⚠R614	1-249-408-11	CARBON	180	5%	1/4W F
⚠R615	1-249-408-11	CARBON	180	5%	1/4W F
⚠R616	1-234-182-11	ENCAPSULATED COMPONENT			
⚠R617	1-249-393-11	CARBON	10	5%	1/4W F
⚠R618	1-249-386-11	CARBON	2.7	5%	1/6W F
R620	1-249-425-11	CARBON	4.7K	5%	1/4W F
R621	1-247-850-11	CARBON	6.2K	5%	1/4W
R622	1-249-419-11	CARBON	1.5K	5%	1/4W F
R623	1-249-437-11	CARBON	47K	5%	1/4W
R625	1-247-881-00	CARBON	120K	5%	1/4W
R626	1-249-431-11	CARBON	15K	5%	1/4W
R630	1-249-425-11	CARBON	4.7K	5%	1/4W F
R631	1-249-425-11	CARBON	4.7K	5%	1/4W F
R638	1-247-881-00	CARBON	120K	5%	1/4W
R651	1-249-417-11	CARBON	1K	5%	1/4W F
R652	1-249-439-11	CARBON	68K	5%	1/4W
R653	1-249-414-11	CARBON	560	5%	1/4W F
R654	1-249-439-11	CARBON	68K	5%	1/4W
R660	1-249-421-11	CARBON	2.2K	5%	1/4W F
R661	1-249-440-11	CARBON	82K	5%	1/4W
R663	1-249-414-11	CARBON	560	5%	1/4W F
⚠R664	1-249-408-11	CARBON	180	5%	1/4W F
⚠R665	1-249-408-11	CARBON	180	5%	1/4W F
⚠R666	1-234-182-11	ENCAPSULATED COMPONENT			
⚠R667	1-249-393-11	CARBON	10	5%	1/4W F
⚠R668	1-249-386-11	CARBON	2.7	5%	1/6W F
R670	1-249-425-11	CARBON	4.7K	5%	1/4W F
R671	1-247-850-11	CARBON	6.2K	5%	1/4W
R672	1-249-419-11	CARBON	1.5K	5%	1/4W F
R674	1-247-866-11	CARBON	30K	5%	1/4W
R675	1-249-422-11	CARBON	2.7K	5%	1/4W F (US,CND)
R675	1-249-424-11	CARBON	3.9K	5%	1/4W F (EXCEPT US,CND)
R676	1-249-431-11	CARBON	15K	5%	1/4W
R677	1-249-433-11	CARBON	22K	5%	1/4W
R678	1-249-433-11	CARBON	22K	5%	1/4W
R683	1-249-437-11	CARBON	47K	5%	1/4W
R684	1-249-431-11	CARBON	15K	5%	1/4W
R691	1-215-888-00	METAL OXIDE	220	5%	2W (US,CND)
R691	1-216-453-00	METAL OXIDE	270	5%	2W (EXCEPT US,CND)
R692	1-215-888-00	METAL OXIDE	220	5%	2W (US,CND)
R692	1-216-453-00	METAL OXIDE	270	5%	2W (EXCEPT US,CND)
R701	1-249-417-11	CARBON	1K	5%	1/4W F
R702	1-249-439-11	CARBON	68K	5%	1/4W
R703	1-249-414-11	CARBON	560	5%	1/4W F
R704	1-249-439-11	CARBON	68K	5%	1/4W
R705	1-249-441-11	CARBON	100K	5%	1/4W
R710	1-249-421-11	CARBON	2.2K	5%	1/4W F
R711	1-249-440-11	CARBON	82K	5%	1/4W
R713	1-249-414-11	CARBON	560	5%	1/4W F
⚠R714	1-249-408-11	CARBON	180	5%	1/4W F
⚠R715	1-249-408-11	CARBON	180	5%	1/4W F
⚠R716	1-234-182-11	ENCAPSULATED COMPONENT			
⚠R717	1-249-393-11	CARBON	10	5%	1/4W F
⚠R718	1-249-386-11	CARBON	2.7	5%	1/6W F
R719	1-249-425-11	CARBON	4.7K	5%	1/4W F
R721	1-247-850-11	CARBON	6.2K	5%	1/4W
R722	1-249-419-11	CARBON	1.5K	5%	1/4W F
R723	1-249-437-11	CARBON	47K	5%	1/4W
R724	1-247-881-00	CARBON	120K	5%	1/4W
R727	1-249-433-11	CARBON	22K	5%	1/4W
R730	1-249-425-11	CARBON	4.7K	5%	1/4W F
R731	1-249-425-11	CARBON	4.7K	5%	1/4W F
⚠R732	1-249-381-11	CARBON	1	5%	1/4W F
⚠R733	1-249-381-11	CARBON	1	5%	1/4W F
R735	1-249-427-11	CARBON	6.8K	5%	1/4W F
R736	1-249-417-11	CARBON	1K	5%	1/4W F
R737	1-249-436-11	CARBON	39K	5%	1/4W
R738	1-247-881-00	CARBON	120K	5%	1/4W
R739	1-249-431-11	CARBON	15K	5%	1/4W
R740	1-247-866-11	CARBON	30K	5%	1/4W
R743	1-249-433-11	CARBON	22K	5%	1/4W
R744	1-249-431-11	CARBON	15K	5%	1/4W
R745	1-249-422-11	CARBON	2.7K	5%	1/4W F (US,CND)
R745	1-249-424-11	CARBON	3.9K	5%	1/4W F (EXCEPT US,CND)
R746	1-249-433-11	CARBON	22K	5%	1/4W
R747	1-249-433-11	CARBON	22K	5%	1/4W
R748	1-249-437-11	CARBON	47K	5%	1/4W
R751	1-249-417-11	CARBON	1K	5%	1/4W F
R752	1-249-439-11	CARBON	68K	5%	1/4W
R753	1-249-414-11	CARBON	560	5%	1/4W F
R754	1-249-439-11	CARBON	68K	5%	1/4W
R760	1-249-421-11	CARBON	2.2K	5%	1/4W F
R761	1-249-440-11	CARBON	82K	5%	1/4W
R763	1-249-414-11	CARBON	560	5%	1/4W F
⚠R764	1-249-408-11	CARBON	180	5%	1/4W F
⚠R765	1-249-408-11	CARBON	180	5%	1/4W F
⚠R766	1-234-182-11	ENCAPSULATED COMPONENT			
⚠R767	1-249-393-11	CARBON	10	5%	1/4W F
⚠R768	1-249-386-11	CARBON	2.7	5%	1/6W F

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Ref. No.	Part No.	Description			Remarks
R770	1-249-425-11	CARBON	4.7K	5%	1/4W F
R771	1-247-850-11	CARBON	6.2K	5%	1/4W
R772	1-249-419-11	CARBON	1.5K	5%	1/4W F
R775	1-249-422-11	CARBON	2.7K	5%	1/4W F (US,CND)
R775	1-249-424-11	CARBON	3.9K	5%	1/4W F (EXCEPT US,CND)
R776	1-249-431-11	CARBON	15K	5%	1/4W
R777	1-247-866-11	CARBON	30K	5%	1/4W
R778	1-249-431-11	CARBON	15K	5%	1/4W
R779	1-249-437-11	CARBON	47K	5%	1/4W
R791	1-215-868-00	METAL OXIDE	680	5%	1W
R793	1-249-425-11	CARBON	4.7K	5%	1/4W F
R799	1-215-868-00	METAL OXIDE	680	5%	1W
⚠R800	1-249-386-11	CARBON	2.7	5%	1/6W F
⚠R801	1-249-381-11	CARBON	1	5%	1/4W F
⚠R802	1-249-381-11	CARBON	1	5%	1/4W F
⚠R803	1-249-386-11	CARBON	2.7	5%	1/6W F
R804	1-249-427-11	CARBON	6.8K	5%	1/4W F
R805	1-249-427-11	CARBON	6.8K	5%	1/4W F
⚠R810	1-240-877-11	FUSIBLE	0.15	5%	1/2W
⚠R811	1-240-877-11	FUSIBLE	0.15	5%	1/2W
⚠R812	1-243-635-81	FUSIBLE	0.33	5%	1/2W
⚠R813	1-240-877-11	FUSIBLE	0.15	5%	1/2W
⚠RR11	1-249-393-11	CARBON	10	5%	1/4W F (EXCEPT US,CND)
⚠RR12	1-249-393-11	CARBON	10	5%	1/4W F (EXCEPT US,CND)
⚠RR13	1-249-393-11	CARBON	10	5%	1/4W F (EXCEPT US,CND)
⚠RR14	1-249-393-11	CARBON	10	5%	1/4W F (EXCEPT US,CND)
⚠RR15	1-249-393-11	CARBON	10	5%	1/4W F (EXCEPT US,CND)
		< RELAY >			
RY550	1-755-170-11	RELAY (12V)			
RY560	1-755-267-11	RELAY			
RY601	1-755-170-11	RELAY (12V)			
RY730	1-755-170-11	RELAY (12V)			
RY791	1-515-614-11	RELAY			
		< TERMINAL >			
TM601	1-537-923-11	TERMINAL BOARD (SPEAKER) (6P) (SURROUND,CENTER)			
TM602	1-537-925-61	TERMINAL BOARD (PEAKER FRONT)			
		< VIBRATOR >			
X301	1-579-900-11	VIBRATOR, CRYSTAL 4.33MHz (AEP,UK)			
**********					
	1-681-430-11	POWER SW BOARD			
		**********			
		< CONNECTOR >			
* CNP100	1-565-295-11	PLUG, CONNECTOR 4P			

Ref. No.	Part No.	Description			Remarks
		< RESISTOR >			
R10	1-249-417-11	CARBON	1K	5%	1/4W
R009	1-249-429-11	CARBON	10K	5%	1/4W
		< SWITCH >			
S108	1-762-875-21	SWITCH, TACTILE			
S109	1-762-875-21	SWITCH, TACTILE			
S150	1-762-875-21	SWITCH, TACTILE			
		< CONNECTOR >			
* CNP910	1-564-687-11	PIN, CONNECTOR 3P (E)			
**********					
	A-2007-945-A	STANDBY BOARD, COMPLETE (US,CND)			
		**********			
	A-2007-952-A	STANDBY BOARD, COMPLETE (AEP,UK,AUS,CH,AR)			
		**********			
	A-4725-729-A	STANDBY BOARD, COMPLETE (E)			
		**********			
	A-4725-727-A	STANDBY BOARD, COMPLETE (MX)			
		**********			
	1-533-293-11	FUSE HOLDER			
		< CAPACITOR >			
C920	1-164-159-11	CERAMIC	0.1uF		50V
C921	1-164-159-11	CERAMIC	0.1uF		50V
C950	1-126-936-11	ELECT	3300uF	20.00%	16V
C951	1-164-159-11	CERAMIC	0.1uF		50V
C952	1-126-960-11	ELECT	1uF	20.00%	50V
C953	1-126-957-11	ELECT	0.22uF	20.00%	50V
C954	1-126-964-11	ELECT	10uF	20.00%	50V
C955	1-164-159-11	CERAMIC	0.1uF		50V
C957	1-164-159-11	CERAMIC	0.1uF		50V
C958	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CNP901	1-564-321-00	PIN, CONNECTOR 2P			
* CNP902	1-565-792-11	PIN, CONNECTOR 2P			
CNP912	1-784-921-11	PIN, CONNECTOR 4P			
		< DIODE >			
D901	8-719-991-33	DIODE 1SS133T-77 (US,CND)			
D901	8-719-911-19	DIODE 1SS133T-72 (EXCEPT US,CND)			
D910	8-719-200-82	DIODE 11ES2-NTA1B (US,CND)			
D910	8-719-024-99	DIODE 11ES2-NTA2B (EXCEPT US,CND)			
D911	8-719-200-82	DIODE 11ES2-NTA1B (US,CND)			
D911	8-719-024-99	DIODE 11ES2-NTA2B (EXCEPT US,CND)			
D912	8-719-200-82	DIODE 11ES2-NTA1B (US,CND)			
D912	8-719-024-99	DIODE 11ES2-NTA2B (EXCEPT US,CND)			
D913	8-719-200-82	DIODE 11ES2-NTA1B (US,CND)			
D913	8-719-024-99	DIODE 11ES2-NTA2B (EXCEPT US,CND)			

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STANDBY VIDEO

Ref. No.	Part No.	Description			Remarks
D914	8-719-991-33	DIODE 1SS133T-77 (US,CND)			
D914	8-719-911-19	DIODE 1SS133T-72 (EXCEPT US,CND)			
D915	8-719-991-33	DIODE 1SS133T-77 (US,CND)			
D915	8-719-911-19	DIODE 1SS133T-72 (EXCEPT US,CND)			
		< FUSE >			
⚠F901	1-533-454-11	FUSE,GLASS TUBE(DIA.5)(6.3A/125V)			(US,CND,MX)
⚠F901	1-532-464-51	FUSE (T2.5AL/250V)(EXCEPT US,CND,MX)			
		< IC >			
IC950	8-759-333-83	IC NJM2103D			
		< TRANSISTOR >			
Q901	8-729-119-79	TRANSISTOR	2SC2785TP-FEK		
Q951	8-729-045-21	TRANSISTOR	2SD1513TP-LK		
		< RESISTOR >			
⚠R901	1-202-725-00	SOLID	3.3M	10%	1/2W (US,CND)
R902	1-249-437-11	CARBON	47K	5%	1/4W
R903	1-249-425-11	CARBON	4.7K	5%	1/4W F
R950	1-249-421-11	CARBON	2.2K	5%	1/4W F
R951	1-249-428-11	CARBON	8.2K	5%	1/4W F
R952	1-249-422-11	CARBON	2.7K	5%	1/4W F
R953	1-249-433-11	CARBON	22K	5%	1/4W
R954	1-249-437-11	CARBON	47K	5%	1/4W
R955	1-249-429-11	CARBON	10K	5%	1/4W
R956	1-247-843-11	CARBON	3.3K	5%	1/4W
R957	1-249-417-11	CARBON	1K	5%	1/4W F
R960	1-249-431-11	CARBON	15K	5%	1/4W
		< RELAY >			
RY901	1-755-298-11	RELAY			
RY901	1-755-276-11	RELAY, POWER (AEP,UK,AUS,CH,AR)			
		< TRANSFORMER >			
⚠T902	1-435-436-11	TRANSFORMER, POWER (US,CND,MX)			
⚠T902	1-435-282-11	TRANSFORMER, POWER (EXCEPT US,CND,MX)			
**********					
	1-681-428-11	VIDEO BOARD			
		**********			
		< CAPACITOR >			
C1602	1-164-159-11	CERAMIC	0.1uF		50V
C1603	1-126-964-11	ELECT	10uF	20.00%	50V
C1604	1-164-159-11	CERAMIC	0.1uF		50V
C1605	1-128-805-11	CERAMIC	47PF	5%	50V
C1606	1-128-805-11	CERAMIC	47PF	5%	50V
C1607	1-126-960-11	ELECT	1uF	20.00%	50V
C1608	1-126-960-11	ELECT	1uF	20.00%	50V
C1609	1-126-960-11	ELECT	1uF	20.00%	50V
C1611	1-126-965-11	ELECT	22uF	20.00%	50V
C1612	1-126-964-11	ELECT	10uF	20.00%	50V

Ref. No.	Part No.	Description				Remarks
		< CONNECTOR >				
CNP911	1-784-925-11	PIN, CONNECTOR 10P				
CNS107	1-691-765-11	PLUG (MICRO CONNECTOR) 3P				
CNS500	1-564-506-11	PLUG, CONNECTOR 3P				
		< IC >				
IC1014	8-759-701-65	IC NJM79M05FA				
IC1015	8-759-333-84	IC NJM2279D				
		< JACK >				
J1004	1-695-317-11	JACK, PIN 2P (VIDEO OUT(MONITOR),VIDEO IN(VIDEO))				
J1006	1-766-199-11	JACK, PIN 3P (VIDEO OUT(MONITOR),VIDEO IN(DVD/LD),VIDEO IN(TV/SAT))				
		< RESISTOR >				
R1601	1-247-804-11	CARBON	75	5%	1/4W	
R1602	1-247-804-11	CARBON	75	5%	1/4W	
R1603	1-247-804-11	CARBON	75	5%	1/4W	
R1604	1-247-804-11	CARBON	75	5%	1/4W	
R1605	1-247-804-11	CARBON	75	5%	1/4W	
**********						
		MISCELLANEOUS				
		**********				
58	1-773-001-11	WIRE (FLAT TYPE) (15 CORE)				
61	1-693-407-21	TUNER (US,CND,E,MX,BR,AR)				
61	1-693-408-41	TUNER (AEP,UK,AUS,CH)				
⚠67	1-696-847-11	CORD, POWER (AUS)				
⚠67	1-777-071-21	CORD, POWER (AEP,UK)				
⚠67	1-783-205-11	CORD, POWER (CH)				
⚠67	1-783-820-11	CORD, POWER (US,CND,E)				
⚠67	1-783-941-11	CORD, POWER (AR)				
⚠68	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (UK)				
71	1-500-386-11	FILTER, CLAMP (FERRITE CORE)				(AEP,UK,AUS,CH)
⚠T901	1-435-312-11	TRANSFORMER, POWER (CND)				
⚠T901	1-435-313-11	TRANSFORMER, POWER (US)				
⚠T901	1-435-908-11	POWER TRANSFORMER (AEP,UK,CH)				
⚠T901	1-435-909-11	POWER TRANSFORMER (E)				
⚠T901	1-435-910-11	POWER TRANSFORMER (AUS)				
	1-501-721-11	ANTENNA (LOOP)(UK,AUS)				

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.	以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

Ref. No.	Part No.	Description	Remarks
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-476-552-11	REMOTE COMMANDER (RM-U305)	
	1-501-374-11	ANTENNA, LOOP (AM)	
	1-501-594-11	ANTENNA (FM) (AEP,UK,AUS,CH)	
	1-793-184-21	CONNECTOR (F TYPE ADAPTOR)	(US,CND,E,MX,BR,AR)
	4-233-503-11	INSTRUCTION MANUAL	(US,CND,AUS,CH)(ENGLISH)
	4-233-503-21	INSTRUCTION MANUAL (CND)(FRENCH)	
	4-233-503-41	INSTRUCTION MANUAL (CH)(CHINESE)	
	4-233-503-51	INSTRUCTION MANUAL	(AEP,UK)(ENGLISH,SWEDISH,FRENCH,DUTCH)
	4-233-503-61	INSTRUCTION MANUAL	(AEP)(GERMAN,POLISH,SPANISH,ITALIAN)
	4-233-503-71	INSTRUCTION MANUAL (MX,AR)(SPANISH)	
	4-228-696-01	COVER, BATTERY (FOR RM-U305)	